SAMSUNG

DLP TV

Owner's Instructions

HL-S4266W
HL-S4666W
HL-S5066W
HL-S5666W
HL-S6166W

This device is a Class B digital apparatus.

Register your product at www.samsung.com/global/register

A Guide to Digital TV

- **What is Digital Television?**
  Digital television (DTV) is a new way of transmitting high quality video and audio to your TV set. Using DTV, broadcasters can transmit high definition TV (HDTV) images, Dolby digital surround audio, and new services such as multicasting (transmitting more than one program on the same TV channel) and datacasting. Several of these services can be combined into a single digital broadcast.

Digital Television Services

- **Digital Picture Quality**
  DTV programs are transmitted in two different formats. The first is Standard Definition Television (SDTV) and the second is High Definition Television (HDTV).
- **SDTV** program formats include 480-line interlaced (480i) and 480-line progressive (480p) video. 480i programs are essentially a digital version of our current analog TV programs, while the 480p format offers improved image detail over 480i. Some 480p programs are broadcast in widescreen and are comparable to progressive-scan DVD movies in image quality.
- **HDTV** program formats include 1080-line interlaced (1080i) and 720-line progressive (720p). Both HDTV formats are always broadcast in widescreen, and offer much higher picture quality than SDTV.
- **Dolby Surround Sound**
  With DTV, you can listen to a variety of Dolby digital audio formats from Dolby Surround 2.0 to Dolby Digital 5.1 surround, using your home audio system. Many HDTV programs are now broadcast with DD 5.1 soundtracks.

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Q&A

1. Is the antenna I use for existing TV reception good enough for DTV?

Over-the-air (OTA) digital TV broadcasting uses the same channels as analog TV and works well with many existing TV antennas. However, DTV broadcast channel assignments are different than analog channels. You should find out whether your local DTV broadcasts are on VHF (channels 2-13) or UHF (channels 14-69) to see if you need a different antenna.

If your DTV channels are on UHF and you already get good UHF reception, your present antenna may work fine. The same holds true for VHF DTV reception. Note that in some markets, both VHF and UHF channels are used for DTV broadcasts.

You can find out the latest DTV channel assignments for your area by browsing selected Internet web sites such as www.titantv.com, www.10000watts.com, and www.fcc.gov.

2. How difficult is it to receive DTV signals indoors?

This depends on whether your local DTV stations are running full power or not and how close your location is to the transmission tower. DTV receivers do not require as much signal as analog TV receivers to produce high-quality images and sound.

Once the DTV signal level exceeds a certain threshold at the receiver, the digital video and audio data is decoded at the same quality it was originally encoded for broadcast.
This is a big advantage for DTV over analog TV - there is no noise, ghosting, static, or scratchy audio.

3. How can I connect an antenna in my townhouse, co-operative apartment, condominium, or apartment?

The Federal Communications Commission's OTARD Rule (part of the Telecommunications Act of 1996) allows residents of condominiums, townhouse, or members of neighborhood associations to put up outside antennas for reception of broadcast TV signals as long as those antennas are not located in common areas and are no more than 12' in height.

Residents of rental units (apartments, etc.) are not covered by the OTARD rules and will have to use indoor antennas to receive DTV broadcasts. It is possible that the landlord of an apartment complex can provide broadcast DTV signals via a master TV antenna system to each apartment.

4. Can I connect my DTV set-top receiver to my cable TV service?

Cable TV systems use a different method for transmitting digital TV programs that is currently incompatible with broadcast DTV set-top receivers. So you will still need to use an outdoor or indoor antenna to receive OTA broadcast DTV programs.

The good news is that you won't have to pay a monthly or per-program charge to watch OTA DTV and HDTV programs. They're free, unlike subscription satellite TV or premium cable TV. All you need is an antenna and a DTV set-top receiver to enjoy clear, sharp widescreen images and high-quality audio.

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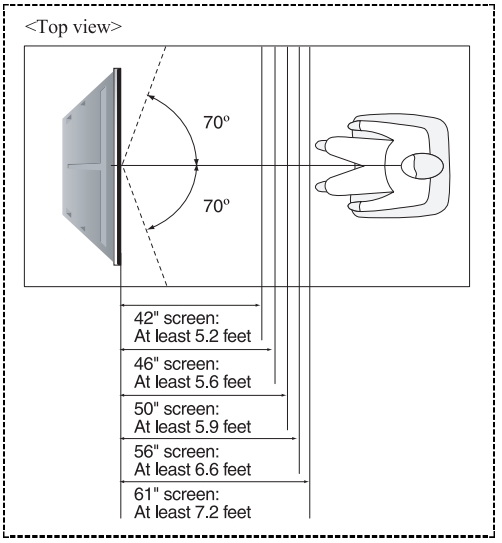
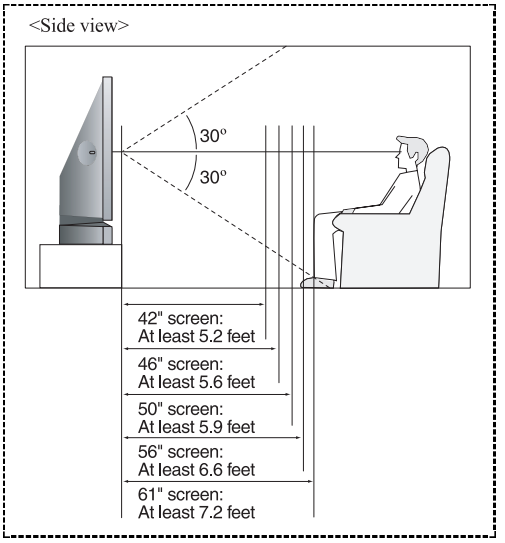
SAMSUNG

Your New Wide TV

Viewing Position

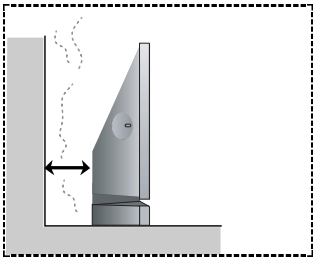
To optimize your viewing comfort, please follow the guidelines below for viewing distance.
If viewing for an extended period of time, sit as far back from the screen as possible.





When installing the product, make sure to keep it away from the wall (more than 10 cm/4 inches) for ventilation purposes.

- Poor ventilation may cause an increase in the internal temperature of the product, resulting in a shortened component life and degraded performance.



List of Features

Your TV was designed and engineered using the latest technology. It is a full-featured, high-performance unit that exceeds industry standards. In addition, it has these special features:

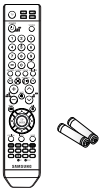
- Easy-to-operate remote control
- Easy-to-use on-screen menu system you can access from right side buttons or remote control
- Automatic timer to turn the TV on and off at any time you choose
- Adjustable picture and sound settings and the ability to memorize your favorite settings
- Automatic channel tuning for up to 181 channels
- A special filter to reduce or eliminate reception problems
- Fine tuning control for the sharpest picture possible
- A built-in multi-channel sound decoder for stereo and bilingual listening
- Built-in, dual channel speakers
- A special sleep timer
- Widescreen TV with adjustable image size
- Life-like clear images provided by DNIe technology
- My Color Control Mode for corresponding with your color style
- Color weakness Mode
- Digital Input jack
- Digital Audio Output (OPTICAL) jack
- Game Mode
- WISELINK enables you to view and play photo (JPEG) and audio files (MP3) through the TV's WISELINK jack.

Checking Accessories

Once you have unpacked your TV, check to make sure that you have all the parts shown here. If any piece is missing or broken, call your dealer.

Owner's Instructions

Warranty Card/
Registration Card/
Safety Guide Manual/
Quick Guide Manual/



Remote Control (BP59-00107A)/
AAA Batteries

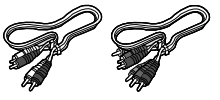
Power Cord
3903-000144

The following parts are sold separately and are available at most electronics stores.

S-VIDEO Cable

HDMI Cable

HDMI/DVI cable



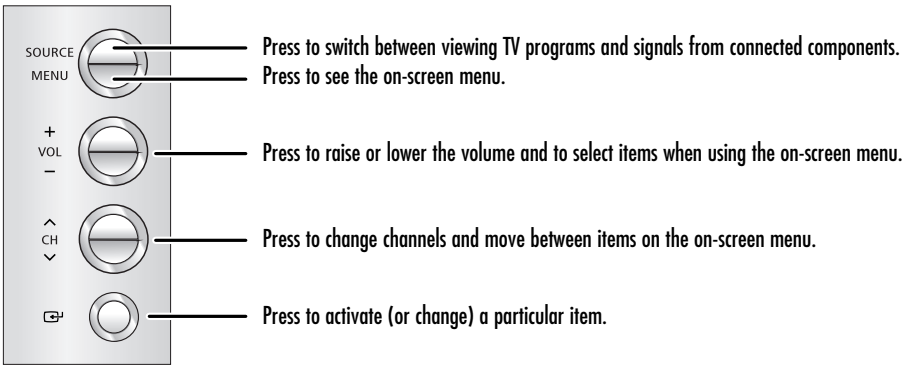
Component Cables (RCA)

Optical Cable

Antenna Cable

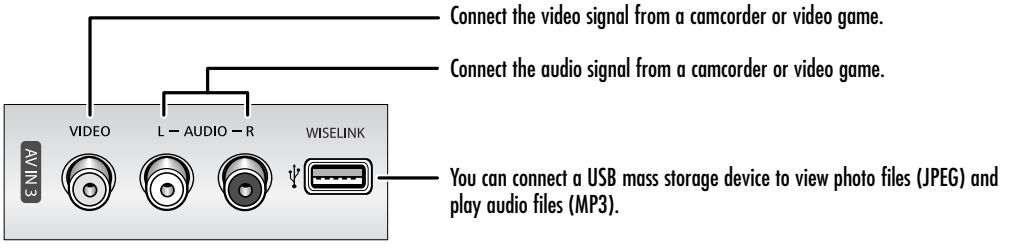
Right side buttons

The buttons on the right side panel control your TV's basic features, including the on-screen menu system. To use the more advanced features, you must use the remote control.
The product color and shape may vary depending on the model.


SOURCE
MENU
+
VOL
−
CH
Press to switch between viewing TV programs and signals from connected components.
Press to see the on-screen menu.
Press to raise or lower the volume and to select items when using the on-screen menu.
Press to change channels and move between items on the on-screen menu.
Press to activate (or change) a particular item.

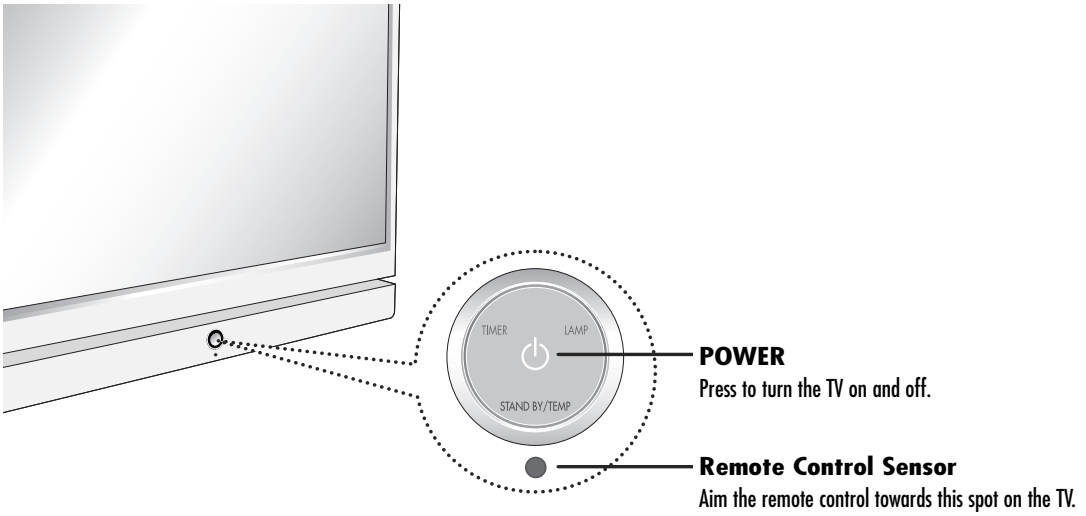
Side Panel Jacks

Use the right side panel jacks to connect a component that is used only occasionally (a camcorder or video game, for example).
The product color and shape may vary depending on the model.


VIDEO
L — AUDIO — R
WISELINK
AV IN 3
Connect the video signal from a camcorder or video game.
Connect the audio signal from a camcorder or video game.
You can connect a USB mass storage device to view photo files (JPEG) and play audio files (MP3).

Front Panel LED Indicators

The three lights on the front panel indicate the status of your TV.
The product color and shape may vary depending on the model.



Indicator Light Key

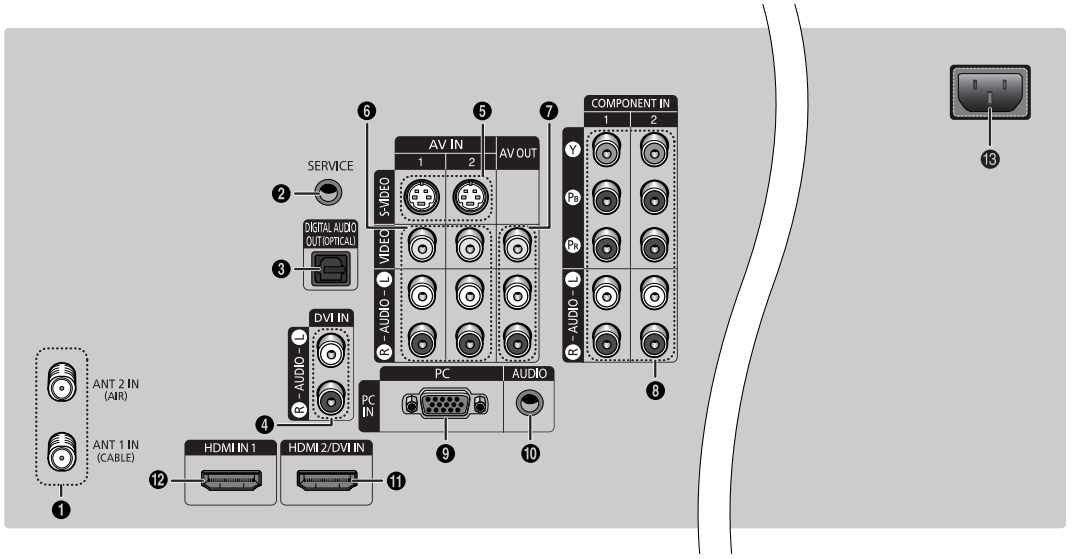
● : Light is On
◑ : Light is Blinking
○ : Light is Off

TIMER	LAMP	STAND BY/TEMP	Indication
○	○	●	Standby state.
○	◑	○	The picture will automatically appear in about 15 seconds.
●	◑	○	Auto Timer ON/OFF has been set and the set will automatically be turned on in about 25 seconds.
◑	○	◑	A cooling fan inside the set is not operating normally.
○	◑	◑	Lamp cover on the rear of the set is not properly shut.
○	○	◑	Check if the ventilation hole on the rear of the set is blocked, because if the inner temperature is too high, the power will shut off.
◑	◑	◑	Lamp may be defective. Please contact a certified technician.

- It takes about 30 seconds for the TV to warm up, so normal brightness may not appear immediately.
- The TV has a fan to keep the inside lamp from overheating. You'll occasionally hear it working.

Rear Panel Jacks

Use the rear panel jacks to connect components such as a VCR. You can connect different components such as VCRs, Set-Top Box and a DVD player etc., because there are two sets of video input jacks and two sets of component video input jacks on the rear panel of your TV. For more information, see "Connections".



❶ **ANTENNA terminals**
Two independent cables or antennas can be connected to these terminals. Use "ANT 1 IN (CABLE)" and "ANT 2 IN (AIR)" terminals to receive a signal from VHF/UHF antennas or your cable system. (Refer to pages 16~18)

❷ **SERVICE**
This jack is for service only.

❸ **DIGITAL AUDIO OUT (OPTICAL) jack**
Connect to a Digital Audio Component. (Refer to page 24)

❹ **DVI (Digital Video Interface) AUDIO input jacks**
Connect to the digital audio output jacks of a device with DVI output. (Refer to page 23)

❺ **S-VIDEO input jacks**
Connects an S-Video signal from an S-VHS VCR or DVD player. (Refer to page 20)

❻ **VIDEO/AUDIO input jacks**
Connect video/audio signals from external sources, such as VCR or DVD players. (Refer to pages 19 and 21)

❼ **VIDEO/AUDIO output jacks**
Sends video/audio signals from the TV to an external source, such as a VCR. These jacks are available only in TV, Video and S-Video modes. (Refer to pages 19 and 24)

❽ **COMPONENT IN 1, 2 jacks (Y, P_B, P_R, AUDIO L/R)**
Use these jacks to connect the component video/audio signals from a DVD player or a Set-Top Box. (Refer to pages 21~22)

❾ **PC VIDEO Input jack**
Connect these to the video output jack on your PC.

❿ **PC AUDIO Input jack**
Connect these to the audio output jack on your PC. (Refer to page 104)

⓫ **HDMI (High Definition Multimedia Interface)/ DVI Input jack (HDMI IN 2/DVI IN)**
Connect to the HDMI jack of a device with HDMI output. This input can also be used as a DVI connection with separate analog audio inputs. An optional HDMI/DVI cable will be necessary to make this connection. When using the optional HDMI/DVI adapter, the DVI analog audio inputs on your TV allow you to receive left and right audio from your DVI device. (Not compatible with PC) (Refer to pages 22~23)

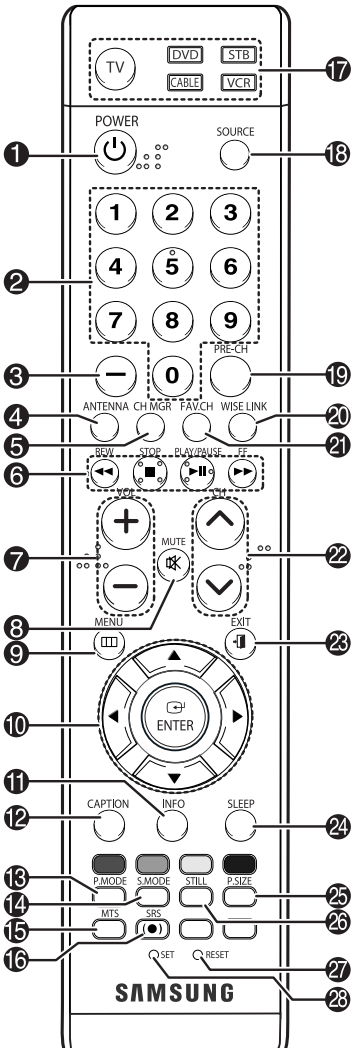
⓬ **HDMI (High Definition Multimedia Interface) Input jack (HDMI IN 1)**
Connect to the HDMI jack of a device with HDMI output.

⓭ **POWER IN**
Connect the supplied power cord.

Remote Control

You can use your remote control within a distance of 23 feet and an angle of 30 degrees from the left and right sides of the TV's remote control receiver. You can also use your remote control to operate your VCR, Cable box, DVD player and Set-top box. See pages 38~40 for details.

1. **POWER**
   Turns the TV on and off.
2. **Channel Number**
   Press to directly tune to a particular channel.
3. **–**
   Press to select additional channels (digital and analog) being broadcast by the same station. For example, to select channel "54-3", press "54", then press "-" and "3".
4. **ANTENNA**
   Press to select "AIR" or "CABLE".
5. **CH MGR**
   Used to displays Channel Lists on the screen.
6. **VCR/DVD Controls**
   Controls VCR or DVD functions: Rewind, Stop, Play/Pause, Fast Forward.
7. **VOL +, VOL -**
   Press to increase or decrease the volume.
8. **MUTE**
   Press to mute the TV sound.
9. **MENU**
   Displays the main on-screen menu.
10. **▲, ▼, ◄, ►, ENTER**
    Press to select highlight up, down, left, or right. While using the on-screen menus, press ENTER to activate (or change) a particular item.
11. **INFO**
    Press to display information on the TV screen.
12. **CAPTION**
    Controls the caption decoder.
13. **P.MODE**
    Adjust the TV picture by selecting one of the preset factory settings (or select your personal, customized picture settings.) (Refer to page 60)
14. **S.MODE**
    Select Sound effect. (Refer to page 75)
15. **MTS (Multichannel Television Stereo)**
    Press to choose Stereo, Mono or SAP (Secondary Audio Program).
16. **SRS**
    Activates TruSurround. (Refer to page 81)
17. **Mode (TV/DVD/STB/CABLE/VCR)**
    Selects a target device to be controlled by the Samsung remote control (i.e., TV, DVD, STB, CABLE, or VCR).
18. **SOURCE**
    Press to display all of the available video sources (TV, AV1, AV2, AV3, S-Video1, S-Video2, Component1, Component2, PC, HDMI1, and HDMI2).
19. **PRE-CH**
    Tunes to the previous channel.
20. **WISELINK**
    This function enables you to view and play photo (JPEG) and audio files (MP3) from an external device.
    (Refer to page 114)
21. **FAV.CH (Favorite Channel)**
    Press to switch between your favorite channels.
22. **CH ∧/∨**
    Press to change channels.
23. **EXIT**
    Press to exit the menu.
24. **SLEEP**
    Press to select a preset time interval for automatic shut off.
    (Refer to page 44)
25. **P.SIZE**
    Press to change the screen size.
    (Refer to page 63)
26. **STILL**
    Press to pause the current screen.
    (Refer to page 70)
27. **RESET**
    If your remote control is not functioning properly, take out the batteries and press the reset button for about 2~3 seconds. Re-insert the batteries and try using the remote control again.
28. **SET**
    Used during set up of this remote control, so that it will work compatibly with other devices (Set-top box, VCR, Cable box, DVD, etc.)



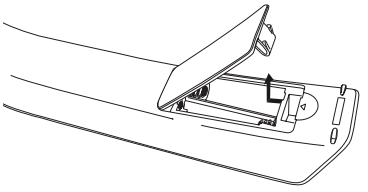
NOTES

- *The Color buttons are used during the channel list function. (Refer to pages 48~53)*
- *This is a special remote control for the visually impaired, and has Braille points on the POWER, VOL +, VOL –, CH ∧/∨, STOP, and PLAY/PAUSE buttons.*

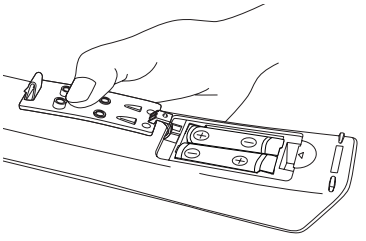
Installing Batteries in the Remote Control

With normal use, the batteries in the remote control should last about a year. If you notice a performance degradation while using the remote, the batteries may need to be replaced. Make sure you replace both batteries and do not mix old and new batteries in the remote control. If you won't be using the remote control for a long time, remove the batteries and store them in a cool, dry place.

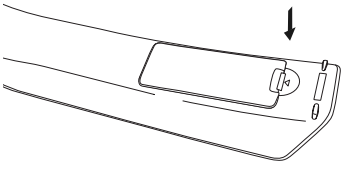
1 Lift the cover at the back of the remote control upward as shown in the figure.



2 Install two AAA size batteries. Make sure to match the "+" and "–" ends of the batteries with the diagram inside the compartment.



3 Close the cover as shown in the figure.



NOTE

- *Do not mix battery types, i.e, alkaline and manganese.*

Connections

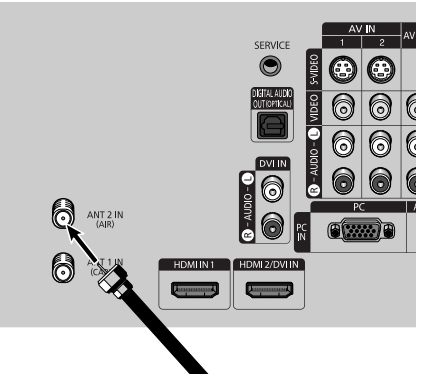
Connecting VHF and UHF Antennas

If you do not have a cable system, you will need to connect an antenna to your TV.

Antennas with 75-ohm Round Leads

If your antenna looks like this: it has 75-ohm round leads.

1 Plug the antenna lead into the ANT 2 IN (AIR) on the rear panel of your TV.

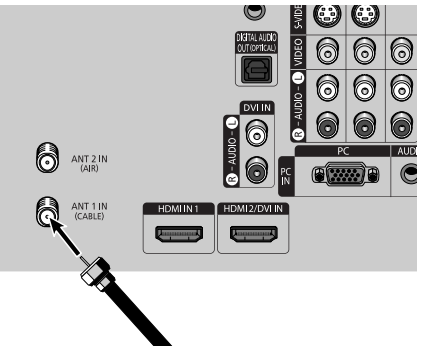


Connecting Cable TV

You can connect different cable systems to your TV, including cable without a Cable box, and cable with a Cable box that descrambles some or all channels.

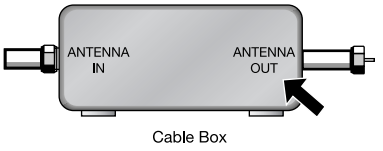
Cable without a Cable Box

1 Plug the incoming cable into the ANT 1 IN (CABLE) on the rear panel of your TV.



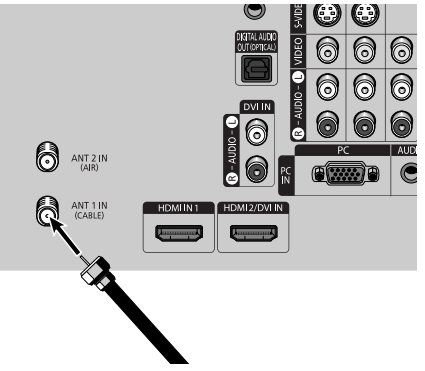
Cable with a Cable Box that Descrambles All Channels

1 Find the cable connected to the ANTENNA OUT terminal on your Cable box. This terminal might be labeled “ANT OUT”, “VHF OUT” or simply “OUT”.



Cable Box

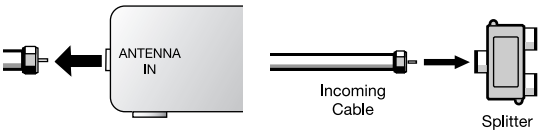
2 Connect the other end of the cable to the “ANT 1 IN (CABLE)” terminal on the rear panel of your TV.



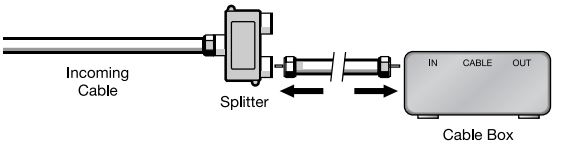
Cable with a Cable Box that Descrambles Some (But Not All) Channels

To complete this connection you will need a two-way splitter, an RF (A/B) switch, and four coaxial cables (which you can buy from your Samsung dealer or any electronics store).

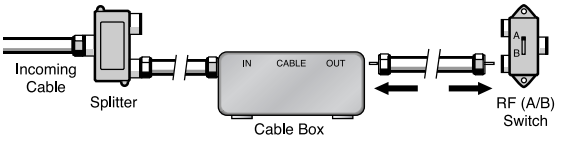
1 Find and disconnect the cable that is connected to the ANTENNA IN terminal of your Splitter. This terminal might be labeled “ANT IN”, “VHF IN” or simply, “IN”. Connect this cable to a two-way splitter.



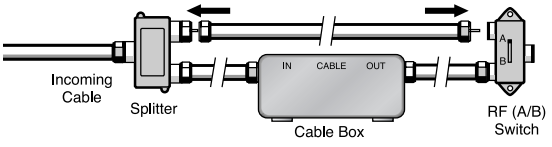
2 Connect a coaxial cable between an OUT terminal of the splitter and the IN terminal of the Cable box.



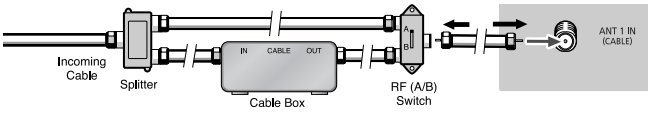
3 Connect a coaxial cable between the ANTENNA OUT terminal of the Cable box and the B-IN terminal of the RF (A/B) switch.



4 Connect another cable between the other OUT terminal on the splitter and the A–IN terminal on the RF (A/B) switch.



5 Connect the last coaxial cable between the OUT terminal of the RF (A/B) switch and the ANT 1 IN (CABLE) on the TV.



After you’ve made this connection, set the A/B switch to the “A” position for normal viewing. Set the A/B switch to the “B” position to view scrambled channels. (When you set the A/B switch to “B”, you will need to tune your Set-Top Box to the Cable box's output channel, which is usually channel 3 or 4.)

Connecting a VCR

Connecting a VCR to the Video or S-Video/Audio jack

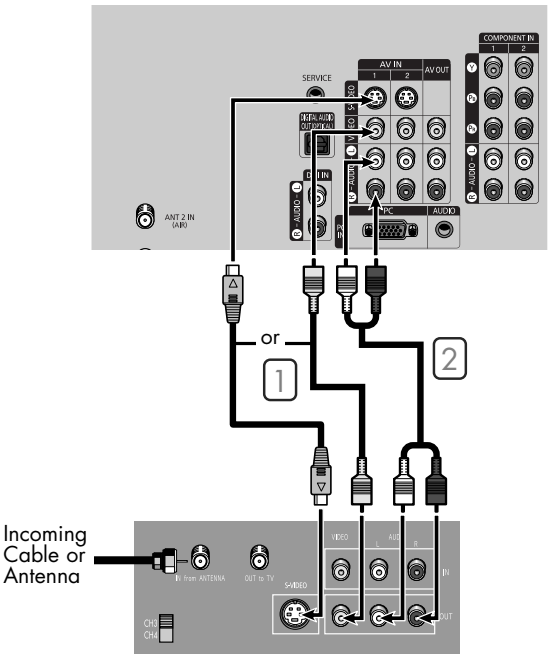
1 Connect a video cable between the VIDEO IN (1 or 2) (or S-VIDEO IN) jack on the TV and the VIDEO (or S-VIDEO) output jack on the VCR.

2 Connect a set of audio cables between the AUDIO IN (1 or 2) jacks on the TV and the AUDIO output jacks on the VCR.

NOTES

- *For better video, use an S-Video cable.*
- *Please be sure to match the color coded input terminals and cable jacks.*

TV Rear Panel



Stereo VCR

Connecting a Second VCR to Record from the TV

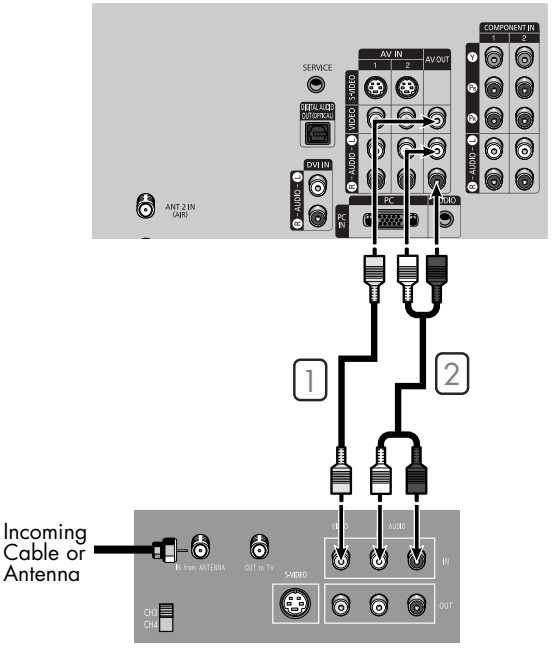
1 Connect a video cable between the VIDEO OUT jack on the TV and the VIDEO input jack on the VCR.

2 Connect a set of audio cables between the AUDIO OUT jacks on the TV and the AUDIO input jacks on the VCR.

NOTES

- *Refer to your VCR's instructions for more information about how to record using this kind of connection.*
- *Please be sure to match the color coded input terminals and cable jacks.*

TV Rear Panel



Stereo VCR

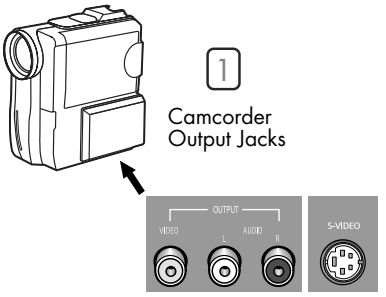
Connecting a Camcorder

The side panel jacks on your TV make it easy to connect a Camcorder to your TV. You can use your camcorder to view tapes without using a VCR.

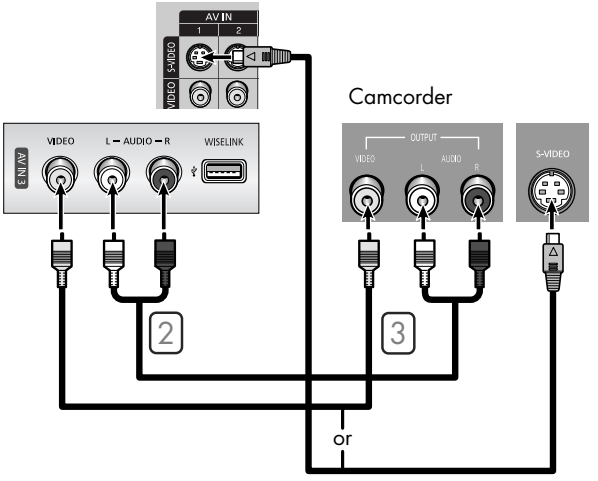
1 Locate the A/V output jacks on the camcorder. They are usually found on the side or back of the camcorder.

2 Connect a set of audio cables between the AUDIO IN jacks on the TV and the AUDIO output jacks on the camcorder. If you have a mono Camcorder, connect L(mono) to the Camcorder audio out using only one audio cable.

3 Connect a video cable between the VIDEO IN (or S-VIDEO IN) jack on the TV and the VIDEO (or S-VIDEO) output jack on the Camcorder. The audio-video cables shown here are usually included with a Camcorder. (If not, check your local electronics store.) If your Camcorder is stereo, you need to connect a set of two cables.



TV Rear and right side



NOTE

- *Please be sure to match the color coded input terminals and cable jacks.*

Connecting a DVD Player

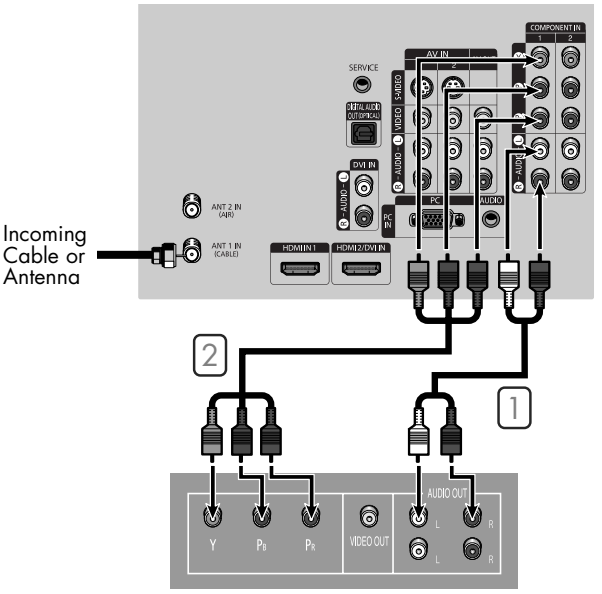
The rear panel jacks on your TV make it easy to connect a DVD player to your TV.

Connecting to Y, P_B, P_R

1 Connect a set of audio cables between the COMPONENT (1 or 2) AUDIO (L, R) IN jacks on the TV and the AUDIO OUT jacks on the DVD player.

2 To enable Component video viewing, connect a set of video cables between the COMPONENT (1 or 2) VIDEO (Y, P_B, P_R) IN jacks on the TV and VIDEO (Y/P_B/P_R or Y/C_B/C_R) OUT jacks on the DVD player.

TV Rear Panel



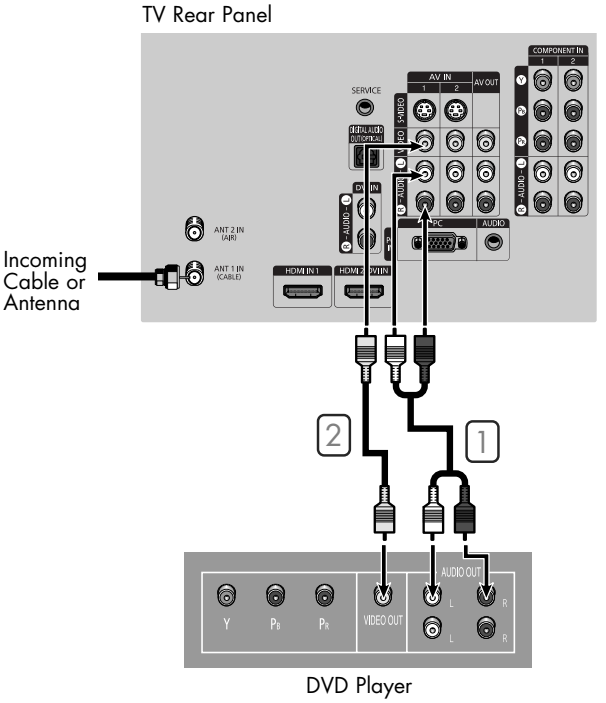
DVD Player

Connecting to Audio and Video Jacks

1 Connect a set of audio cables between the AUDIO IN (1 or 2) jacks on the TV and the AUDIO OUT jacks on the DVD player.

2 Connect a video cable between the VIDEO IN (1 or 2) jack on the TV and the VIDEO OUT jack on the DVD player.

TV Rear Panel



DVD Player

NOTES

- *Component Video separates the video into Y(Luminance (Brightness)),* P_B *(Blue) and* P_R *(Red) for enhanced video quality.*
- *Please be sure to match the color coded input terminals and cable jacks.*

Connecting a DTV Set-Top Box

Connecting to Y, P_B, P_R

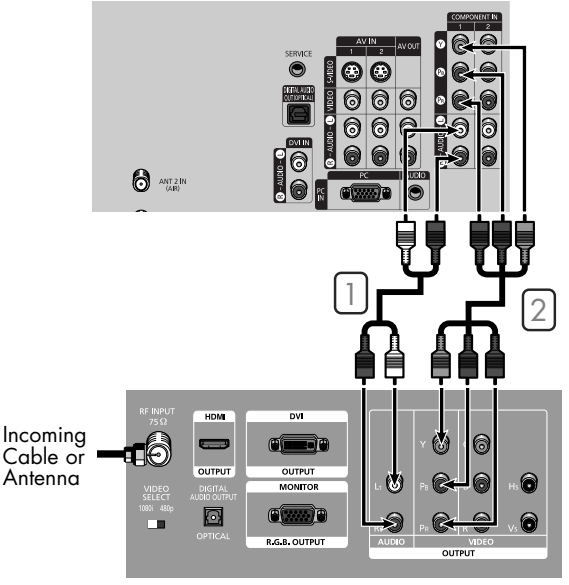
1 Connect a set of audio cables between the COMPONENT (1 or 2) AUDIO (L, R) IN jacks on the TV and the AUDIO OUT jacks on the Set-Top Box.

2 Connect a set of video cables between the COMPONENT (1 or 2) VIDEO (Y, P_B, P_R) IN jacks on the TV and VIDEO ($Y/P_B/P_R$ or $Y/C_B/C_R$) OUT jacks on the Set-Top Box.

NOTE

- *Please be sure to match the color coded input terminals and cable jacks.*

TV Rear Panel



DTV Set-Top Box

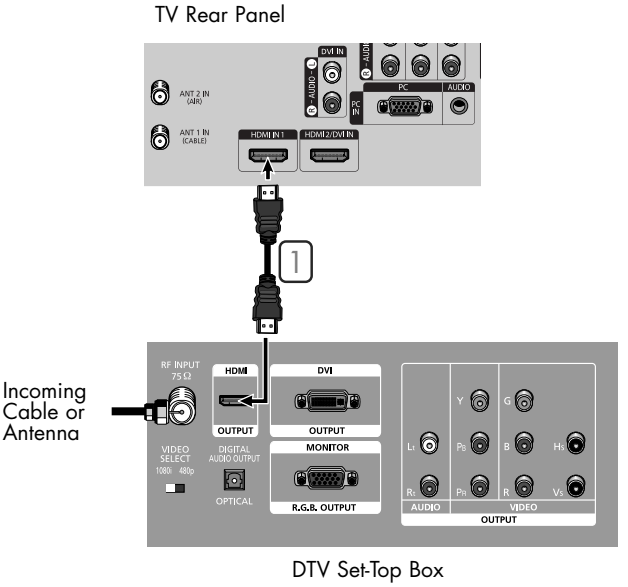
Connecting to HDMI (High Definition Multimedia Interface)

1 Connect an HDMI cable between the HDMI IN 1 jack on the TV and the HDMI OUT jack on the Set-Top Box.

NOTE

- *Make sure the HDMI/DVI source's power is on, or you will be unable to select it in the TV menu's source list.*

TV Rear Panel



DTV Set-Top Box

Connecting to DVI (Digital Visual Interface)

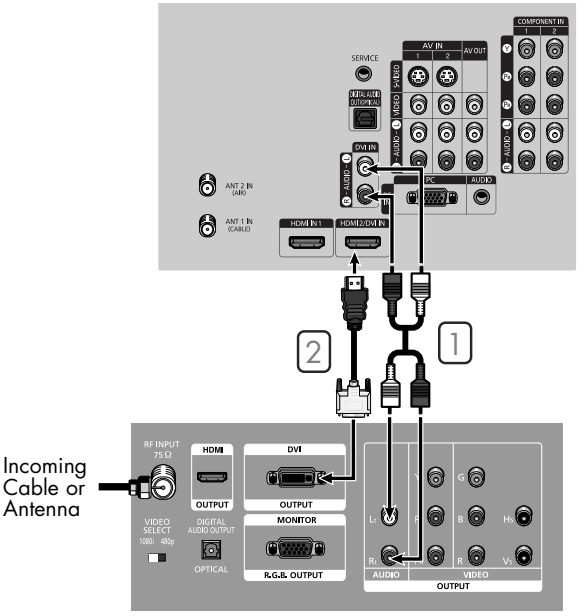
1 Connect a set of audio cables between the DVI AUDIO (L, R) IN jacks on the TV and the AUDIO OUT jacks on the Set-Top Box.

2 Connect an HDMI/DVI cable between the HDMI 2/DVI IN jack on the TV and the DVI OUT jack on the Set-Top Box.

NOTES

- *Make sure the DVI source's power is on, or you will be unable to select it in the TV menu's source list.*
- *The HDMI/DVI IN jack is not compatible with PC.*

TV Rear Panel



DTV Set-Top Box

Connecting a Digital Audio System

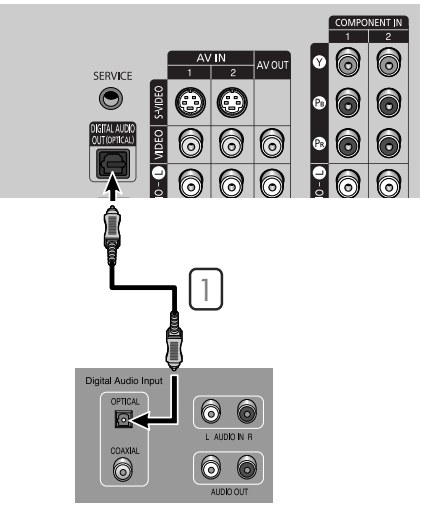
There are many types of digital audio systems on the market today.
A simplified illustration of an audio system is shown below.
For more information, see your audio system owner's manual.

1 If your audio system has an optical digital audio input, connect to the DIGITAL AUDIO OUT (OPTICAL) jack on the TV.

NOTE

- *OPTICAL: converts the electric signal into an optical light signal, and transmits it through glass fibers.*
- *When a Digital audio system is connected to the Digital Audio Out (Optical) terminal: Decrease the gain (volume) of the TV, and adjust the volume level with the audio system's volume control.*

TV Rear Panel



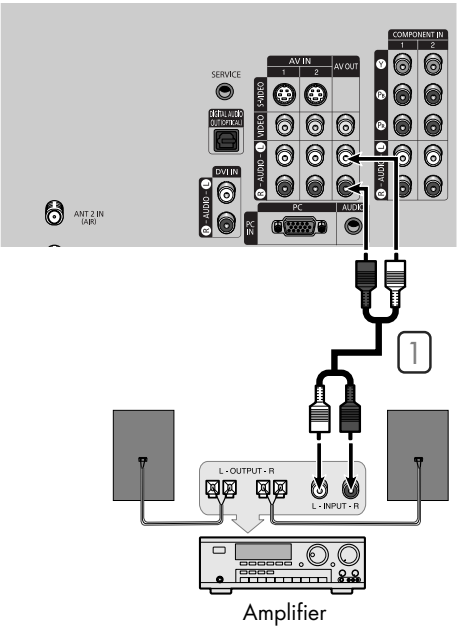
Audio System

Connecting to an Analog Amplifier

1 The AV OUT (AUDIO L/R) terminals cannot be used for external speakers.
You must hook them up to an amplifier.

When an audio amplifier is connected to the AV OUT (AUDIO L/R) terminals: Decrease the gain (volume) of the TV, and adjust the volume level with the volume control audio amplifier.

TV Rear Panel



Amplifier

NOTE

- *If using the HDMI/DVI, PC, or Component input on the TV, the audio output signal is available only when the TV's Internal Mute is set to on.*
  (Refer to page 79)

	Internal Speakers		Audio Out (Optical, L/R Out)		Video Output
	Internal Mute Off	Internal Mute On	Internal Mute Off	Internal Mute On	
RF AV S-Video	Active	Inactive	Active	Active	Active
Component PC HDMI	Active	Inactive	Active	Active	Inactive

When "Internal mute" is set to "On", Sound menus except "Multi-Track Options" and "Digital Output" cannot be adjusted.

Operation

Turning the TV On and Off

Press the POWER button on the remote control.
You can also use the POWER button on the front panel.

Plug & Play Feature

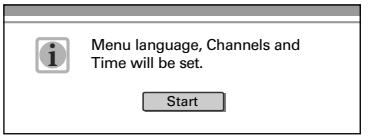
When the TV is initially powered On, basic customer settings proceed automatically and subsequently: Setting the language, checking the antenna input, memorizing the channels, and setting the time.

NOTE

- *The Plug & Play function operates after plugging in the TV for the first time.*

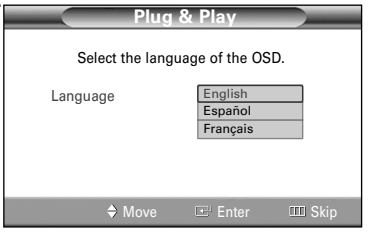
1 Press the POWER button on the remote control. The message "Menu language, Channels and Time will be set." is displayed.
Press the ENTER button, then the Language menu is displayed.

- The Language menu will automatically appear after several seconds, even if the ENTER button is not pressed.



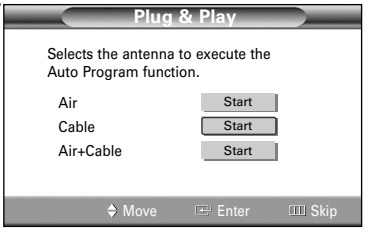
2 Press the ENTER button to enter the language. Press the ▲ or ▼ button to select language, then press the ENTER button. "Selects the antenna to execute the Auto Program Function." menu is automatically displayed.

- The message to check the connected status of the antenna is displayed.



3 Press the ▲ or ▼ button to memorize the channels of the selected connection. Press the ENTER button to select "Start".

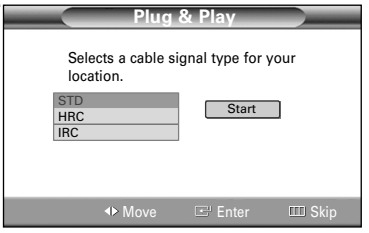
- If the antenna is connected to ANT 1 IN (CABLE), select "Cable" and if it is connected to ANT 2 IN (AIR), select "Air".
- If both ANT 1 IN and ANT 2 IN are connected, select the "Air + Cable".

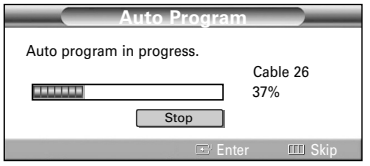


Continued...

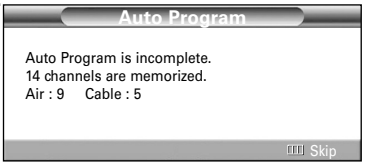
4 Press the ENTER button to start the auto program. By default, the cable TV system is set to “STD”.
If you want to select another type of cable system, press the ◄ button and use the ▲ or ▼ button to select “STD”, “HRC” or “IRC”.
Press the ENTER button.

- STD, HRC, and IRC identify various types of cable TV systems. Contact your local cable company to identify the type of cable system that exists in your particular area. At this point the signal source has been selected.

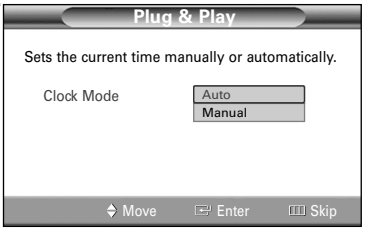




5 The TV will begin memorizing all of the available channels.
After all the available channels are stored, the Auto program menu reappears. Press the ENTER button at any time to interrupt the memorization process.
Press the ENTER button, then the menu to set the clock mode is automatically displayed.



6 Press the ENTER button to select “Clock Mode”.
Press the ▲ or ▼ button to select “Auto” or “Manual”, then press the ENTER button.

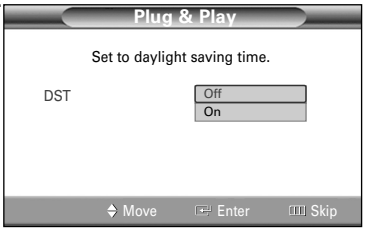


Continued...

Option 1: Setting the Clock Automatically

If you set "Clock Mode" to "Auto" in step 6, follow the instructions below.

7 Press the ENTER button to select "DST"(Daylight Saving Time).
Press the ▲ or ▼ button to select "Off" or "On", then press the ENTER button.



8 Press the ▲ or ▼ button to select time zone, then press the ENTER button.

Press the ▲ or ▼ button to highlight the time zone for your local area (and to move the highlight to the appropriate time zone on the map of the United States), then press the ENTER button.

- When you set up Auto Time, the set time may not be correct depending on the broadcasting station and signal. If there is a difference between the real time and set time, please set the time manually.

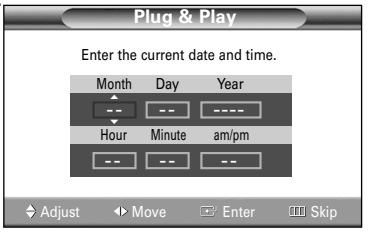
9 The message "Enjoy your watching." is displayed. When you have finished, press the ENTER button.

Option 2: Setting the Clock Manually

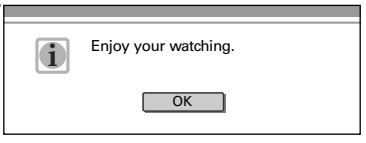
If you set "Clock Mode" to "Manual" in step 6, follow the instructions below.

7 Press the ◄ or ► button to move to "Month", "Day", "Year", "Hour", "Minute", or "am/pm".
Set the clock you want by pressing the ▲ or ▼ button, then press the ENTER button.

- You can set the month, day, year, hour and minute directly by pressing the number buttons on the remote control.

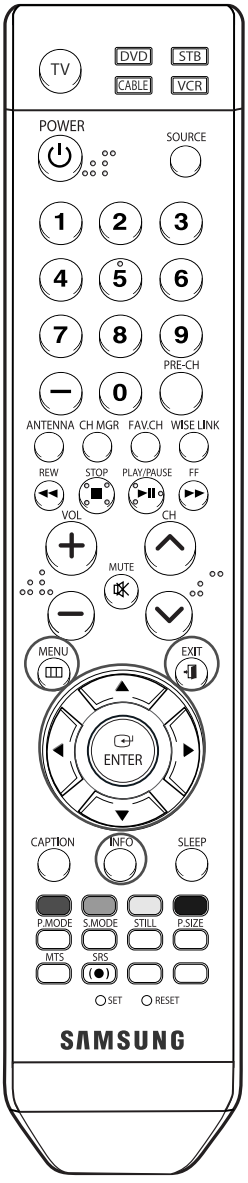


8 The message "Enjoy your watching." is displayed. When you have finished, press the ENTER button.



Viewing the Menus and On-Screen Displays

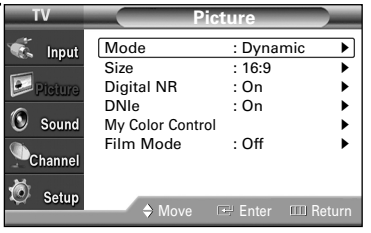
The on-screen menu system allows you to control the settings of your TV. Access the on-screen menu system by pressing the MENU button on the remote control. Once the on-screen menu appears, use the ▲/▼/◄/►/ENTER buttons on your remote control to select menu items and make adjustments. You can also view the on-screen menu system and make some adjustments using the TV's side panel buttons.



Viewing the Menus

1 Press the MENU button.
The main menu is displayed. There are five menu groups: "Input", "Picture", "Sound", "Channel", and "Setup".

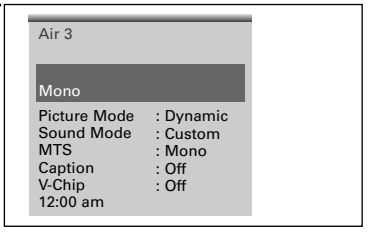
2 Press the ▲ or ▼ button to select an item you want in the menu.
Press the ◄, ► or ENTER button to display, change, or use the selected items.
Use the ENTER button to enter items in the menu.



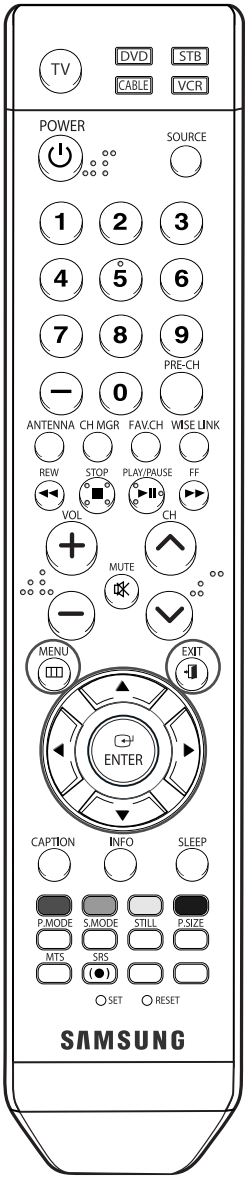
3 Press the EXIT button to exit.

Viewing the Display

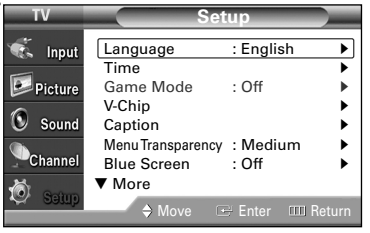
Press the INFO button on the remote control.
The TV displays the current channel, the status of certain picture and sound settings and the current time.
The information displayed varies according to the selected source.



Selecting a Menu Language

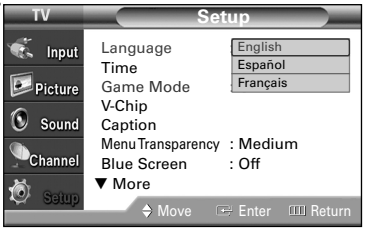


1 Press the MENU button.
Press the ▲ or ▼ button to select “Setup”, then press the ENTER button.



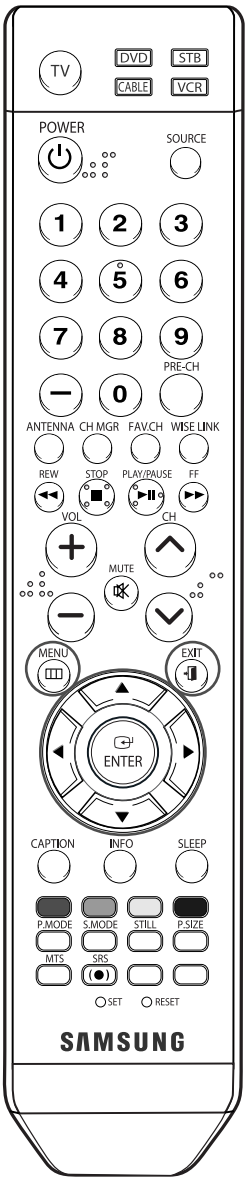
2 Press the ENTER button to select “Language”.
Press the ▲ or ▼ button to select “English”, “Español” or “Français”, then press the ENTER button.

Press the EXIT button to exit.



Memorizing the Channels

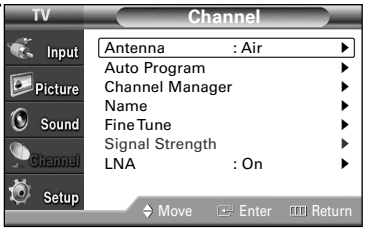
Your TV can memorize and store all of the available channels for both "off-air" (antenna) and cable channels. After the available channels are memorized, use the CH ∧ and CH ∨ buttons to scan through the channels. This eliminates the need to change channels by entering the channel digits. There are three steps for memorizing channels: selecting a broadcast source, memorizing the channels (automatic) and adding and deleting channels (manual).



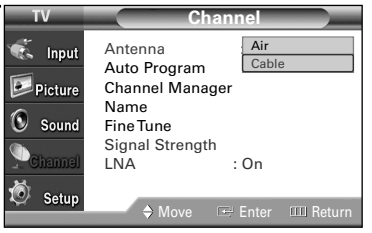
Selecting the Video Signal Source

Before your television can begin memorizing the available channels, you must specify the type of signal source that is connected to the TV (i.e., an antenna or cable system).

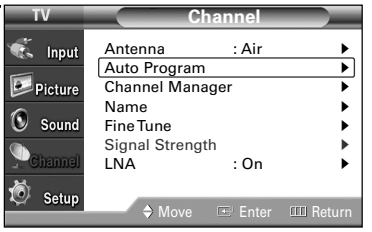
1 Press the MENU button. Press the ▲ or ▼ button to select "Channel", then press the ENTER button.



2 Press the ENTER button to select "Antenna". Press the ▲ or ▼ button to select "Air" or "Cable", then press the ENTER button.



3 Press the ▲ or ▼ button to select "Auto Program", then press the ENTER button.



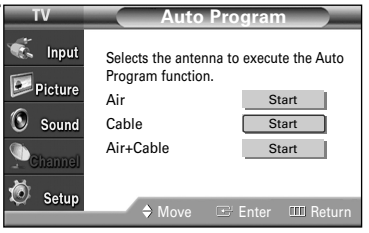
Continued...

NOTE

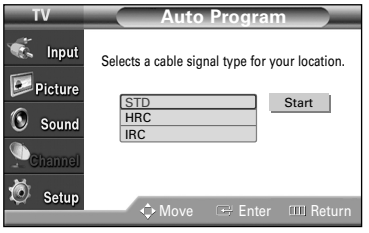
- *All available DTV and analog channels are automatically stored in memory.*

4 Press the ▲ or ▼ button to select the Antenna connection, then press the ENTER button.

- Air : “Air” antenna signal
  Cable : “Cable” antenna signal
  Air+Cable : “Air” and “Cable” antenna signals



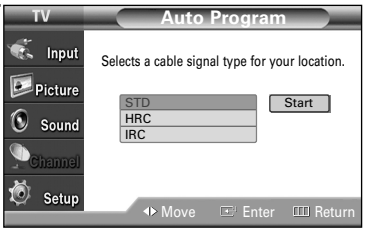
When selecting Cable TV system:
Press the ENTER button to start the auto program. By default, the cable TV system is set to “STD”.
If you want to select another type of cable system, press the ◄ button and use the ▲ or ▼ button to select “STD”, “HRC” or “IRC”.
Press the ENTER button.

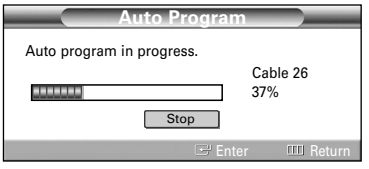


- STD, HRC and IRC identify various types of cable TV systems. Contact your local cable company to identify the type of cable system that exists in your particular area.
  At this point the signal source has been selected.

5 Press the ► button to select “Start”, then press the ENTER button to start the auto program. The TV begins memorizing all available stations. Press the ENTER button at any time to interrupt the memorization process.

Press the EXIT button to exit.





- The TV must be connected to an antenna in order to receive digital TV signals. Even if a particular channel is deleted from the memory, you can always tune to that channel directly by using the number buttons on the remote control.

Changing Channels

Using the Channel Buttons

Press the CH ∧ or CH ∨ button to change channels.

When you press the CH ∧ or CH ∨ button, the TV changes channels in sequence.
You will see all the channels that the TV has memorized.
(The TV must have memorized at least three channels.)
You will not see channels that were either erased or not memorized.

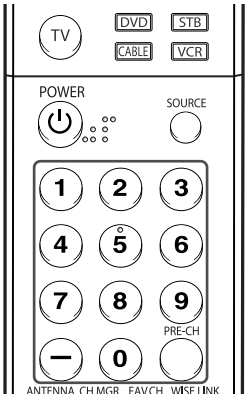
Using the Number Buttons

Use the number buttons to quickly switch to any channel.

Press the number buttons to go directly to a channel. For example, to select channel 27, press "2," then "7." The TV will change channels when you press the second number.

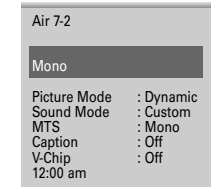
Using the "–" Button

The "–" button is used to select stations that broadcast both a digital and analog signal.



For example, for channel 7-1 (digital), press "7", then "–", then "1".

For channel 7-2 (analog), press "7", then "–", then "2".



NOTE

- *HD indicates the TV is receiving a Digital High Definition signal. SD indicates the TV is receiving a Analog standard definition signal.*

Using the Previous Channel

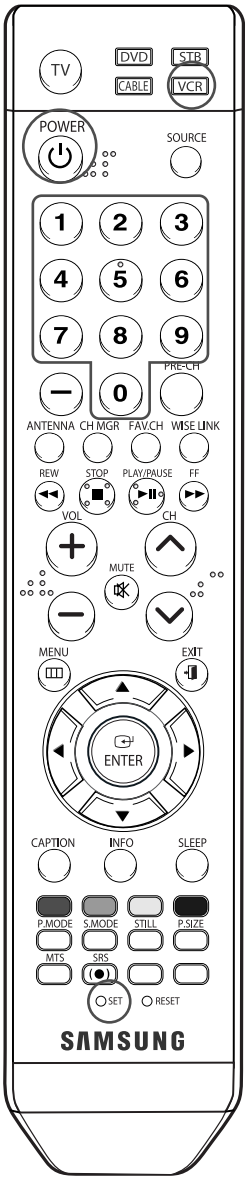
Press the PRE-CH button.
The TV changes to the last channel you were watching.

Customizing Your Remote Control

After it has been set up properly, your remote control can operate in five different modes: TV, VCR, Cable, DVD, or Set-Top Box. Pressing the corresponding button on the remote control allows you to switch between these modes, and control whichever piece of equipment you choose.

NOTE

- *The remote control might not be compatible with all DVD Players, VCRs, Cable boxes, and Set-Top Boxes.*

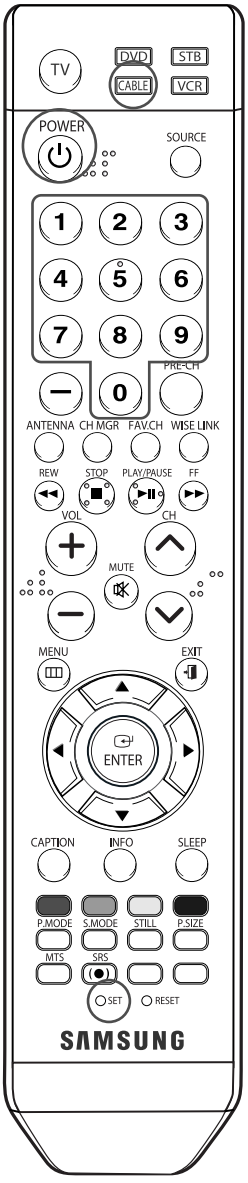


Setting Up the Remote to Operate Your VCR

1. Turn off your VCR.
2. Press the VCR button on your TV's remote control.
3. Press the SET button on your TV's remote control.
4. Using the number buttons on your remote control, enter three digits of the VCR code listed on page 38 of this manual for your brand of VCR. Make sure you enter three digits of the code, even if the first digit is a "0". (If more than one code is listed, try the first one.)
5. Press the POWER button on the remote control. Your VCR should turn on if your remote is set up correctly.

   If your VCR does not turn on after set-up, repeat steps 2, 3 and 4, but try one of the other codes listed for your brand of VCR.
   If no other codes are listed, try each VCR code, 000 through 080.

Note on Using Remote Control Modes: VCR
When your remote control is in "VCR" mode, the volume buttons still control your TV's volume.



Setting Up the Remote to Operate Your Cable Box

1. Turn off your cable box.

2. Press the CABLE button on your TV's remote control.

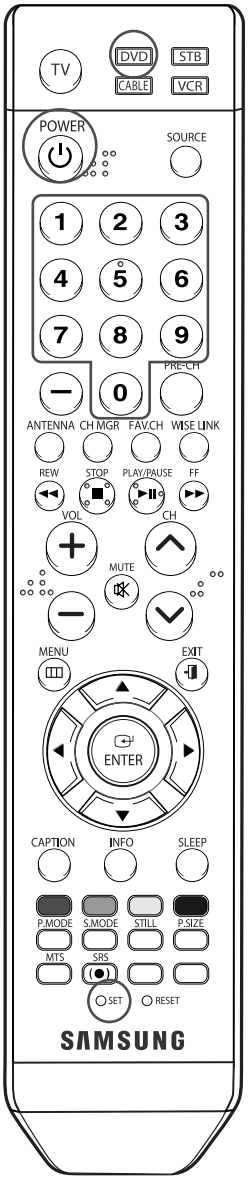
3. Press the SET button on your TV's remote control.

4. Using the number buttons on your remote control, enter three digits of the cable box code listed on page 39 of this manual for your brand of cable box. Make sure you enter three digits of the code, even if the first digit is a "0".
(If more than one code is listed, try the first one.)

5. Press the POWER button on the remote control.
Your cable box should turn on if your remote is set up correctly.

If your cable box does not turn on after set-up, repeat steps 2, 3 and 4, but try one of the other codes listed for your brand of cable box. If no other codes are listed, try each code, 000 through 046.

Note on Using Remote Control Modes: Cable Box
When your remote control is in "CATV" mode, the volume buttons still control your TV's volume.



Setting Up the Remote to Operate Your DVD

1 Turn off your DVD.

2 Press the DVD button on your TV's remote control.

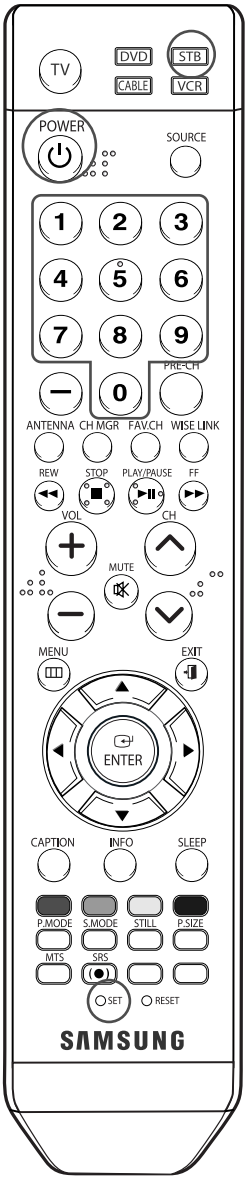
3 Press the SET button on your TV's remote control.

4 Using the number buttons on your remote control, enter three digits of the DVD code listed on page 40 of this manual for your brand of DVD. Make sure you enter three digits of the code, even if the first digit is a "0". (If more than one code is listed, try the first one.)

5 Press the POWER button on the remote control.
Your DVD should turn on if your remote is set up correctly.

If your DVD does not turn on after set-up, repeat steps 2, 3 and 4, but try one of the other codes listed for your brand of DVD. If no other codes are listed, try each code, 000 through 141.

Note on Using Remote Control Modes: DVD
When your remote control is in "DVD" mode, the volume buttons still control your TV's volume.



Setting Up the Remote to Operate Your Set Top Box

1 Turn off your STB.

2 Press the STB button on your TV's remote control.

3 Press the SET button on your TV's remote control.

4 Using the number buttons on your remote control, enter three digits of the STB code listed on page 39 of this manual for your brand of STB. Make sure you enter three digits of the code, even if the first digit is a "0". (If more than one code is listed, try the first one.)

5 Press the POWER button on the remote control.
Your STB should turn on if your remote is set up correctly.

If your STB does not turn on after set-up, repeat steps 2, 3 and 4, but try one of the other codes listed for your brand of STB.
If no other codes are listed, try each code, 000 through 074.

Note on Using Remote Control Modes: STB
When your remote control is in "STB" mode, the volume buttons still control your TV's volume

Remote Control Codes

VCR

Brand	Code
SAMSUNG	000 001 002 003 004 005 077 078 079
ADMIRAL	020
AIWA	025
AKAI	004 027 032
AUDIO DYNAMICS	007 026
BELL&HOWELL	018
BROKSONIC	022
CANDLE	002 003 006 008 015 055
CANON	021 056
CITIZEN	002 003 006 008 015 055
COLORTYME	007
CRAIG	002 024
CURTIS MATHES	002 007 008 017 021 025 056 064 066
DAEWOO	003 010 011 012 013 014 015 016
DB	007 026
DIMENSIA	017
DYNATECH	025
ELECTROHOME	034
EMERSON	001 003 006 021 022 025 030 032 034 040 047 050 052 060 063 065 066 067 069 073
FISHER	018 024 028 029 048 051 061
FUNAI	025
GENERAL ELECTRIC	002 005 017 021 056
GO VIDEO	002
LG(Goldstar)	006 007 008 009 010
HARMAN KARDON	007
HITACHI	019 025 041 042 074
INSTANT REPLAY	021
JC PENNEY	002 007 018 019 021 026 037 041 054 056
JCL	007 008 018 021 026 037
KENWOOD	007 008 018 026 037
KLH	070
LIOYD	025
LOGIK	038
LXI	025
JVC	081 082 083
MAGNAVOX	021 056 059
MARANTZ	007 008 018 021 026 037 062
MARTA	006
KONIA	036
ORION	073 074 075 076
MEI	021
MEMOREX	006 021 024 025
MGA	034
MIDLAND	005
MINOLTA	019 041 075

Brand	Code
MITSUBISHI	019 034 041 046
MONTGOMERY WARD	020
MTC	002 025
MULTITECH	002 005 025 038
NEC	007 008 018 026 037 062 064
OPTIMUS	020
PANASONIC	021 056 071 072
PENTAX	019 041 075
PENTEX RESEARCH+	008
PHILCO	021 056 059
PHILIPS	021 080
PIONEER	019 026 039 053
PORTLAND	015 049 055
PROSCAN	017
QUARTZ	018
QUASAR	021 056
RADIO SHACK/REALISTIC	006 018 020 021 024 025 029 034 048 056
RCA	002 017 019 021 035 041 043 057 068 076
SANSUI	026
SANYO	018 024
SCOTT	003 047 052 067
SEARS	006 018 019 024 028 029 041 048 051
SHARP	020 034 045 015
SHIMTOM	027 033 038 058
SIGNATURE	025
SONY	027 033 044
SYLVANIA	021 025 056 059
SYMPHONIC	025
TANDY	018 025
TASHIKA	006
TATUNG	037
TEAC	025 037 068
TECHNICS	021
TEKNIKA	006 021 025 031
TMK	066
TOSHIBA	003 019 029 051 052
TOTEVISION	002 006
UNITECH	002
VECTOR RESEARCH	007 026
VICTOR	026
VIDEO CONCEPTS	007 026
VIDEOSONIC	002
WARDS	002 003 006 019 020 021 024 025 034 038 041
YAMAHA	007 008 018 026 037
ZENITH	023 027 033

continued...

Remote Control Codes

CABLE BOX

Brand	Code
SAMSUNG	000 001 002 003 004 005 006 007
GI	041
HAMLIN	003 024 031
HITACHI	025 030
JERROLD	038 039
MACOM	025 030
MAGNAVOX	019 023 028
OAK	026
PANASONIC	003 022 027 037 044
PHILIPS	019 021 023 028
PIONEER	004 018 020 044
RCA	014 022 040
REGAL	003

Brand	Code
REGENCY	015 023
SA	042 043
SCIENTIFIC ATLAN	042 043
SPRUCER	022
STARGATE 2000	036
SYLVANIA	016
TEXSCAN	016
TOCOM	032
UNIVERSAL	033 034
VIEWSTAR	019 021 023 028
WAMER AMEX	046
ZENITH	017 029 035 037 045

SAMSUNG SET-TOP BOX

Product	Code
Ground wave STB	001 002
Satellite STB	003
CABLE STB	004
STB DVD COMBO	008
Satellite STB HDD COMBO Standard	009

Product	Code
Satellite STB HDD COMBO Premium	010
CABLE STB HDD COMBO Standard	011
CABLE STB HDD COMBO Premium	012
Ground wave STB HDD COMBO Standard	013
Ground wave STB HDD COMBO Premium	014

SET-TOP BOX

Brand	Code
ALPHASTAR	023
ANAM	043
CHANNEL MASTER	018 034
CROSSDIGITAL	019
CHAPARRAL	035
DIRECT TV	015 016 017 019 022 045 060 061 062 065 066 067 068
DAEWOO	074
DISH NETWORK SYSTEM	069 070
DISHPRO	069
DRAKE	018 024 032
DX ANTENNA	027
ECHOSTAR	025 069 070 071
EXPRESSVU	069
GOI	069
GE	065
GENERAL INSTRUMENT	046 047 048 063 064
HTS	069
HOME CABLE	056
HITACHI	022
HUGHES NETWORK	015 017
IQ	020
IQ PRISM	020
JANEIL	059
JERROID	063
JVC	069 070

Brand	Code
LG(Goldstar)	044 073
MAGNAVOX	016 021 036 038 039 040 041 042
MEMOREX	016
MOTOROLA	064
MACOM	018
MITSUBISHI	015
NEXT LEVEL	047 048 064
PHILIPS	015 016 017 021 033 036 038 039 040 041 042 067
PRIMESTAR	046 049 050 063
PANASONIC	058 059 061 062
PAYSAT	016
PROSCAN	065 066
RCA	051 052 053 065 066
RADIOSHACK	064
REALISTIC	057
STS	020 027
STAR TRAK	026
SKY	031
SKY LIFE	005 006 007
SHACK	064
STAR CHOICE	064
SONY	054 060
TOSHIBA	015 017 028 029 030 072
ULTIMATE TV	060 066
UNIDEN	016 021 037 055 056 057
ZENITH	024 031 068

continued...

Remote Control Codes

SAMSUNG DVD

Product	Code
DVD	000 001 002
DVDR	003 004
BD Record	005 006
VCR COMBO	007 008 009 010 011
VCR Record	012
DHR COMBO	013

Product	Code
Home Theater VCR COMBO	014 015 016
HDD Record COMBO	017
TWIN TRAY COMBO	018
STB DVD COMBO	019
DVD Receiver	020
AV Receiver	021

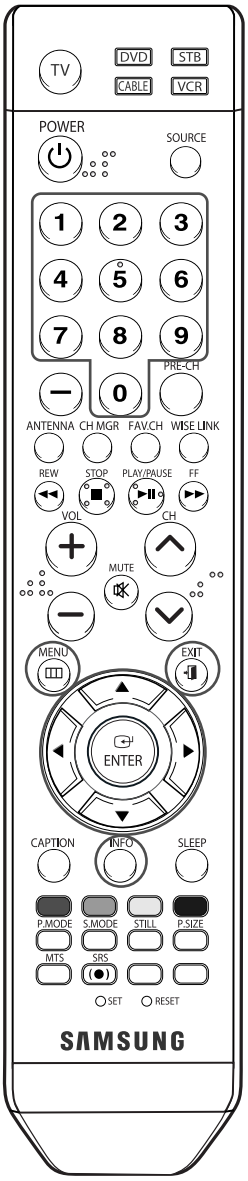
DVD

Brand	Code
ANAM	030
AUDIOVOX	075
AUDIOLOGIC	085
ANABA	072
APEX DIGITAL	070 071 074 086 083 084 088 111 112
AIWA	114
BROKSONIC	062
BLAUPUNKT	074
B&K	122 123
CURTIS MATHES	027
CYBER HOME	065 077 078 079 082
CLARION	080 125
CIRRUS	081
CINEVISION	095
DAEWOO	066
DENON	146
FARENHEIT	067 068
FISHER	090
GPX	060
GO VIDEO	061 089 133 135
GE	069 074
GREENHILL	074
HITACHI	064 113
HITEKER	071
HOYO	073
HARMAN / KARDON	091 110
IRT	089
INTEGRA	092
JBL	091
JVC	022 033 115 116
JATON	073
KENWOOD	051 108 109
KISS	073
KONKA	059 100 106 107
KLH	074 075
LG(Goldstar)	025 031
LOEWE	057
LASONIC	058
MOBILE AUTHORITY	054
MEMOREX	055
MALATA	056
MAGNAVOX	076 093
MINTEK	074 094
MONYKA	073

Brand	Code
NORCENT	048 049 050
NEXT BASE	052
NEC	053
NANTAUS	144
NESA	074
OPTOMEDIA ELECTRONICS	105
OPTIVIEW	072
ONKYO	076 092 119
PHILCO	044 045
PRINCETON	046 047
PROSCAN	023
PANASONIC	024 034 124 134 136 137 138
PHILIPS	036 076
ROTEL	117 118
RIO	120
RCA	023 035 074 075 131 132
RAITE	073
ROWA	038
SAMPO	104
SONY	026 029 126 127 128 129 130 141
SHERWOOD	039 041
SVA	042
SYLVANIA	043 093
SHARP	140
SANSUI	062
SANYO	062
SHINSONIC	094
SANYO	090
THOMSON	145
TOSHIBA	028 062 076
TECHNICS	139
TVIEW	072
TOKAI	073
TEAC	096
TECHWOOD	097
TREDEX	098 099 101
URBAN CONCEPTS	076
VENTURER	075
VOCOPRO	102
YAMAHA	032 063
YAMAKAWA	040 073
XWAVE	103
ZENITH	076 121

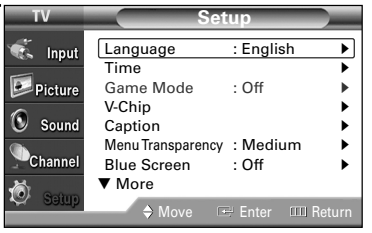
Setting the Clock

Setting the clock is necessary in order to use the various timer features of the TV.
Also, you can check the time while watching the TV. (Just press the INFO button.)

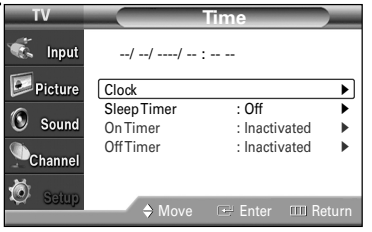


Option 1: Setting the Clock Manually

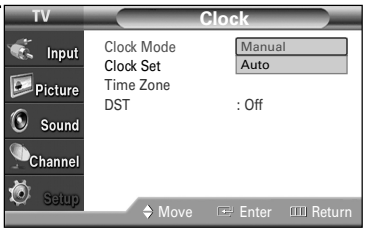
1 Press the MENU button.
Press the ▲ or ▼ button to select “Setup”, then press the ENTER button.



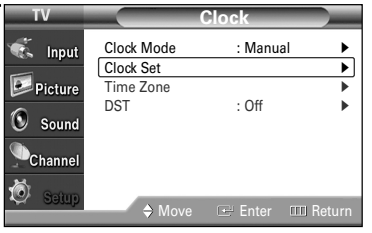
2 Press the ▲ or ▼ button to select “Time”, then press the ENTER button.
Press the ENTER button to select “Clock”.



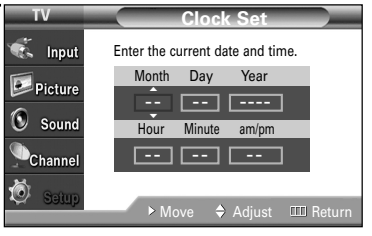
3 Press the ENTER button to select “Clock Mode”.
Press the ▲ or ▼ button to select “Manual”, then press the ENTER button.



4 Press the ▲ or ▼ button to select “Clock Set”, then press the ENTER button.



5 Press the ◄ or ► button to move to “Month”, “Day”, “Year”, “Hour”, “Minute”, or “am/pm”. Set the clock you want by pressing the ▲ or ▼ button, then press the ENTER button.



- You can set the month, day, year, hour and minute directly by pressing the number buttons on the remote control.

Press the EXIT button to exit.

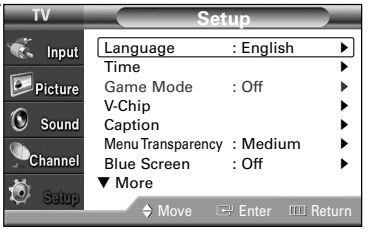
NOTE

- *The current time will appear every time you press the INFO button.*

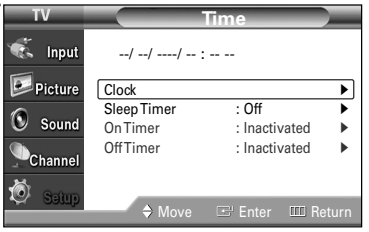
Option 2: Setting the Clock Automatically

The Clock can be set automatically if you are receiving a digital signal.

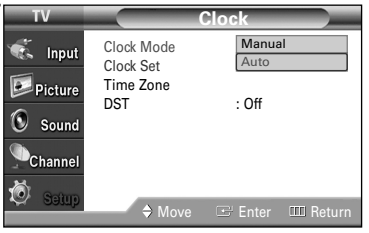
1 Press the MENU button.
Press the ▲ or ▼ button to select “Setup”, then press the ENTER button.



2 Press the ▲ or ▼ button to select “Time”, then press the ENTER button.
Press the ENTER button to select “Clock”.



3 Press the ENTER button to select “Clock Mode”.
Press the ▲ or ▼ button to select “Auto”, then press the ENTER button.



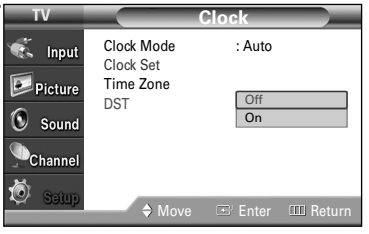
4 Press the ▲ or ▼ button to select “Time Zone”, then press the ENTER button.

Press the ▲ or ▼ button to highlight the time zone for your local area (and to move the highlight to the appropriate time zone on the map of the United States), then press the ENTER button.

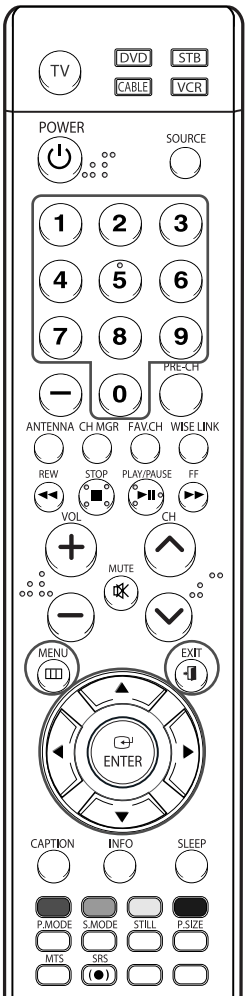
- When you set up Auto Time, the set time may not be correct depending on the broadcasting station and signal. If there is a difference between the real time and set time, please set the time manually.

5 Press the ▲ or ▼ button to select “DST”(Daylight Saving Time), then press the ENTER button.
Press the ▲ or ▼ button to select “Off” or “On”, then press the ENTER button.

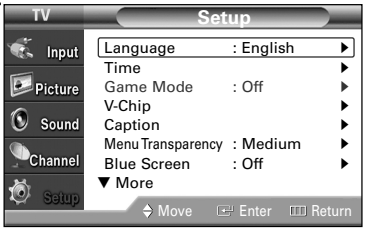
Press the EXIT button to exit.



Setting the On/Off Timer

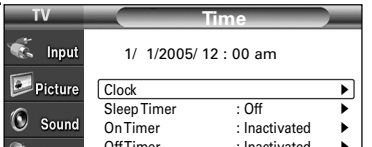


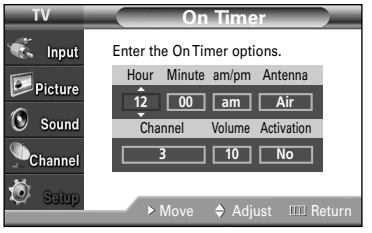
1 Press the MENU button.
Press the ▲ or ▼ button to select “Setup”, then press the ENTER button.



2 Press the ▲ or ▼ button to select “Time”, then press the ENTER button.
Press the ▲ or ▼ button to select “On Timer”, then press the ENTER button.
Press the ▲ or ▼ button to adjust “Hour”, then press the ► button to move to the next step.
Set other items using the same method as above.

To activate On Timer with the setting entered, set Activation to “Yes” by pressing ▲ or ▼ button.

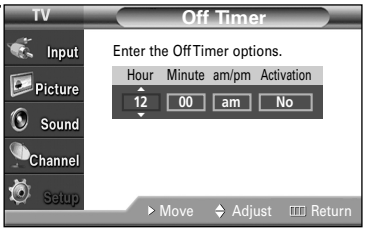




- You can set the hour, minute, and channel directly by pressing the number buttons on the remote control.

When finished, press the MENU button to return.

3 Press the ▲ or ▼ button to select “Off Timer”, then press the ENTER button.
Press the ▲ or ▼ button to adjust “Hour”, then press the ► button to move to the next step. Set other items using the same method as above.



To activate Off Timer with the setting entered, set Activation to “Yes” by pressing ▲ or ▼ button.

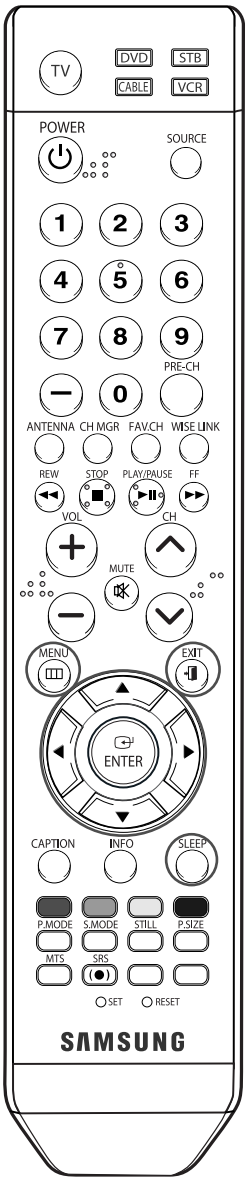
When finished, press the EXIT button to exit.

NOTE

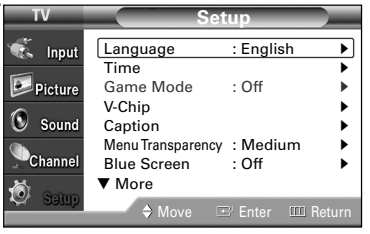
- ***Auto Power Off***
  When you set the timer “On”, the television will eventually turn off, if no controls are operated for 3 hours after the TV was turned on by the timer. This function is only available in timer “On” mode and prevents overheating, which may occur if a TV is on for too long (when you are on vacation, for example).

Setting the Sleep Timer

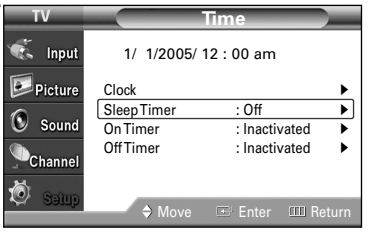
The sleep timer automatically shuts off the TV after a preset time (from 30 to 180minutes).



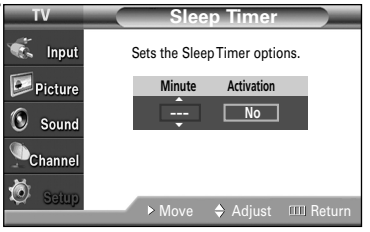
1 Press the MENU button.
Press the ▲ or ▼ button to select “Setup”, then press the ENTER button.



2 Press the ▲ or ▼ button to select “Time”, then press the ENTER button.
Press the ▲ or ▼ button to select “Sleep Timer”, then press the ENTER button.



3 Press the ▲ or ▼ button to adjust “Minute”.

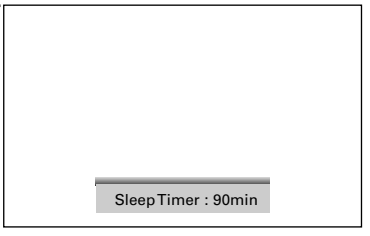


4 Setting the Timer sets the Activation to “Yes” automatically.

Press the EXIT button to exit.

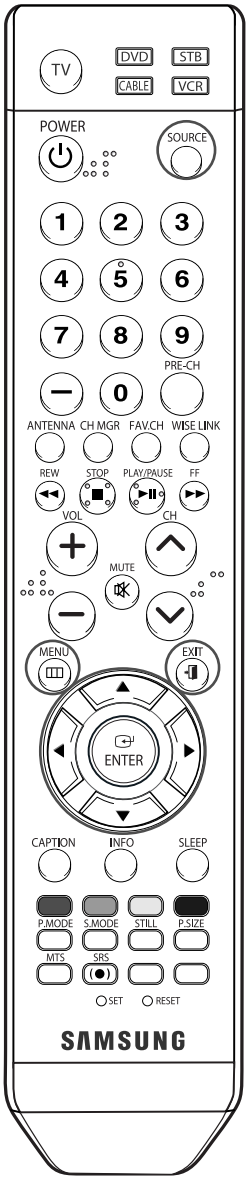
Alternate method

Press the SLEEP button on the remote control repeatedly until the appropriate time interval appears (any of the preset values from “30min” to “180min”).



Viewing an External Signal Source

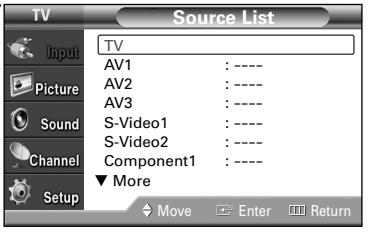
Use the remote control to switch between viewing signals from connected equipment, such as a VCR, DVD, Set-Top Box or the TV source (broadcast or cable).



Setting the Signal Source

1 Press the MENU button. Press the ENTER button to select "Input".

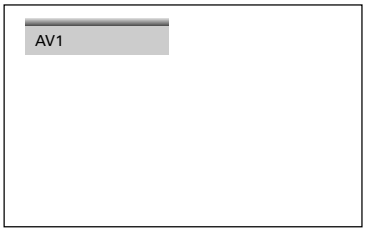
2 Press the ENTER button to select "Source List". Press the ▲ or ▼ button to select a signal source, then press the ENTER button.



- When you connect equipment to the TV, you can choose between the following sets of jacks: "AV1", "AV2", "S-VIDEO1", "S-VIDEO2", "COMPONENT1", "COMPONENT2", "PC", "HDMI1", or "HDMI2" on the TV's rear panel and "AV3" on the TV's side panel.

Alternate method

Press the SOURCE button on the remote control repeatedly to select an external signal source.

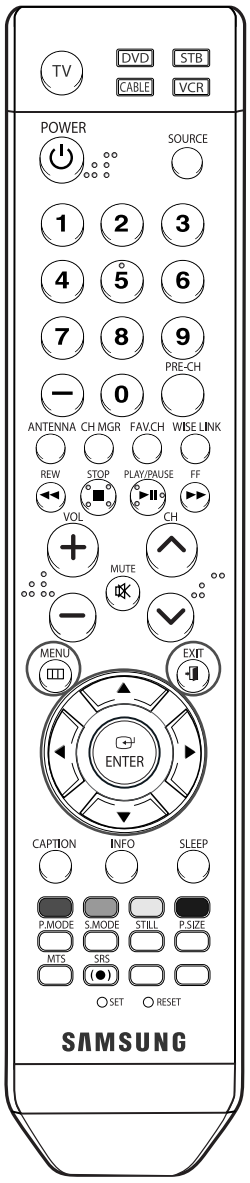


NOTES

- *Only connected devices can be selected.*
- *Before selecting an input source, connect an external device first.*
- *HDMI input can be selected only when the external device is turned on and connected to the TV.*

Assigning Names to External Input Mode

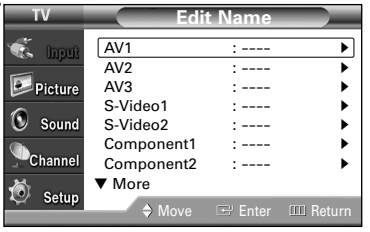
This feature enables you to name the input source you have connected.



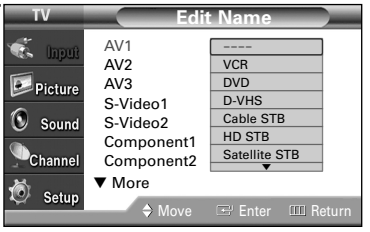
1 Press the MENU button. Press the ENTER button to select "Input".

2 Press the ▲ or ▼ button to select "Edit Name", then press the ENTER button.

3 Press the ▲ or ▼ button to select a signal source to edit, then press the ENTER button.



4 Press the ▲ or ▼ button to select the external device : VCR, DVD, D-VHS, Cable STB, HD STB, Satellite STB, PVR STB, AV Receiver, DVD Receiver, Game, Camcorder, DVD Combo, DVD HDD Recorder, PC, Internet TV Recv., Interactive TV Recv., VOD (Video On Demand) STB, TV.



Press the ENTER button. Set other signal sources (AV2, AV3, S-Video1, S-Video2, Component1, Component2, PC, HDMI1, HDMI2) using the same method as listed above.

Press the EXIT button to exit.

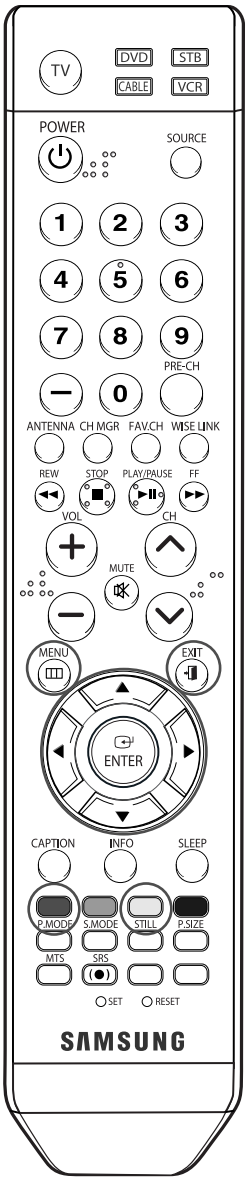
Channel Control

Channel Control

Selecting Your Favorite Channels

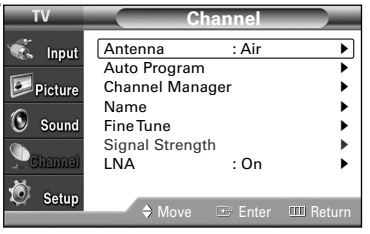
You can store your favorite channels for each available input source (such as TV and Cable box). Then, when you press the FAV.CH button on the remote control, the TV displays only the favorite channels you previously stored, allowing you to quickly and easily find frequently watched channels.

Preset : To use the Channel Manager function, first run Auto Program (see page 31).

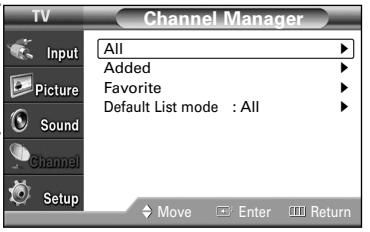


To Store Your Favorite Channels:

1 Press the MENU button. Press the ▲ or ▼ button to select "Channel", then press the ENTER button.

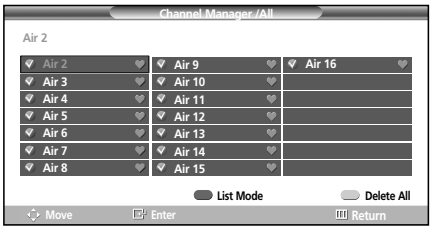


2 Press the ▲ or ▼ button to select "Channel Manager", then press the ENTER button.



3 Press the ▲ or ▼ button to select "All" or "Added", then press the ENTER button. Press the ▲/▼/◄/► button to select a channel, then press the ENTER button and option window will appear.

4 Press the ▲ or ▼ button to select "Favorite", then press the ENTER button and a ♥ mark is activated. Press the ENTER button again to deselect the selected channel and the ♥ mark is deactivated.

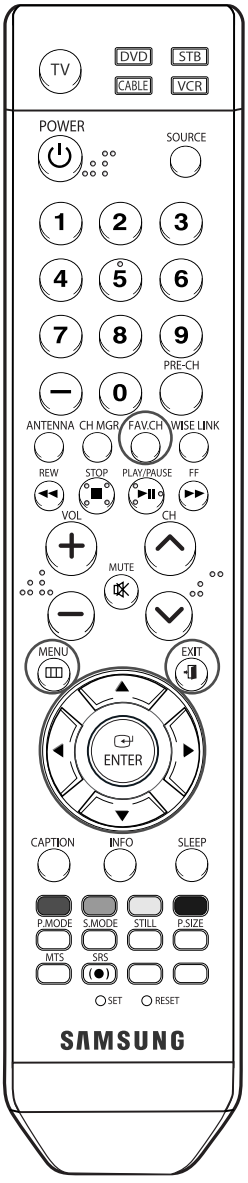


- Red button (List Mode) : If you press the Red button repeatedly, the All Channel List, the Added Channel List or the Favorite Channel List is selected sequentially.
- Yellow button : Press to delete all channels memorized.

Press the EXIT button to exit.

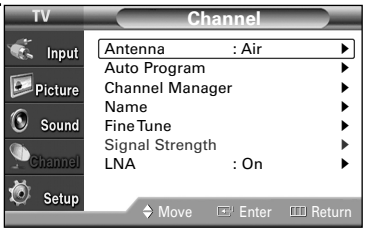
NOTE

- Only memorized channels can be set as favorite channels.

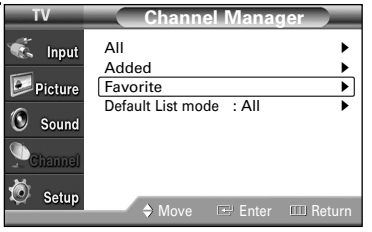


To View Your Favorite Channels list:

1 Press the MENU button. Press the ▲ or ▼ button to select “Channel”, then press the ENTER button.

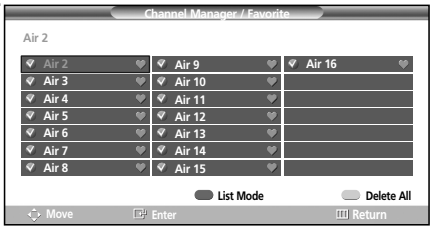


2 Press the ▲ or ▼ button to select “Channel Manager”, then press the ENTER button.



3 Press the ▲ or ▼ button to select “Favorite”, then press the ENTER button.

- The favorite channel list will appear.



Press the EXIT button to exit.

NOTE

- Watch, Add, Delete, or Favorite setting on the channel is available in the Favorite channel list.

To Watch Favorite channels:

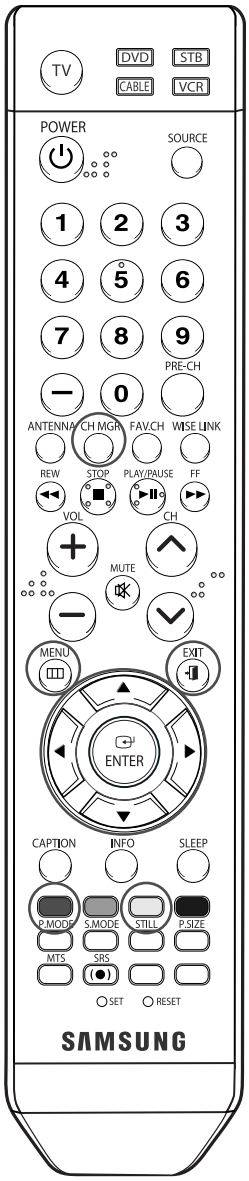
Press the FAV.CH button repeatedly to jump from one favorite channel to another.

Channel Control

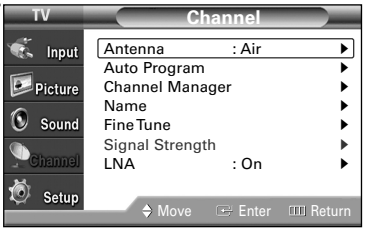
Viewing the Channel Lists

You can display a list of all channels or your favorite channels.

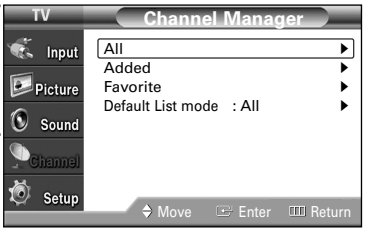
Preset : To use the Channel Manager function, first run Auto Program (see page 31).



1 Press the MENU button. Press the ▲ or ▼ button to select “Channel”, then press the ENTER button.

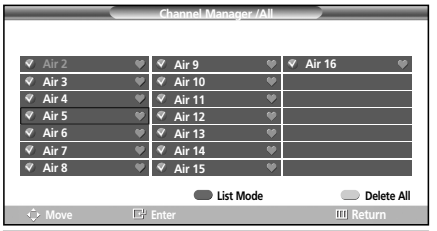


2 Press the ▲ or ▼ button to select “Channel Manager”, then press the ENTER button.



3 Press the ENTER button to select “All”. If you want to watch the channel, press the ▲/▼/◄/► button to select a channel, then press the ENTER button and option window will appear.

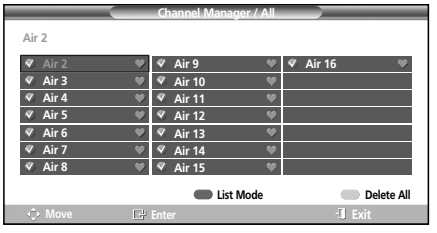
4 Press the ENTER button select “Watch”, then press the ENTER button again.
The selected channel broadcasting window will appear.



- Red button (List Mode) : If you press the Red button repeatedly, the All Channel List, the Added Channel List or the Favorite Channel List is selected sequentially.
- Yellow button : Press to delete all channels memorized.

Alternate method

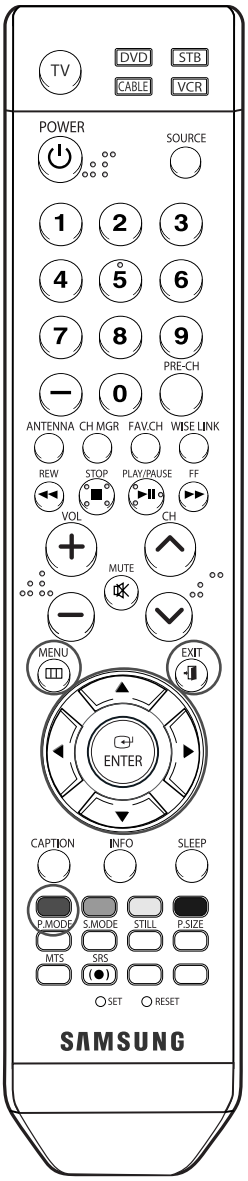
Press the CH MGR button on the remote control to display a list of channels.



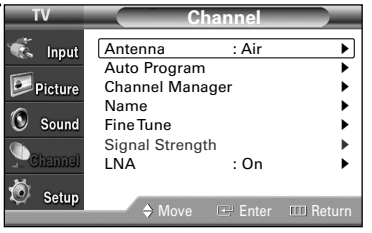
Editing the Channel Lists

You can edit channels to be added or deleted.

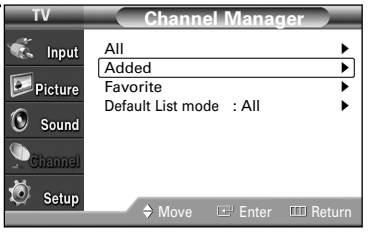
Preset : To use the Channel Manager function, first run Auto Program (see page 31).



1 Press the MENU button. Press the ▲ or ▼ button to select “Channel”, then press the ENTER button.

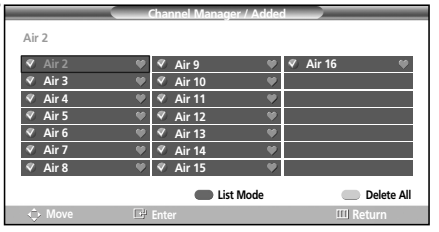


2 Press the ▲ or ▼ button to select “Channel Manager”, then press the ENTER button.



3 Press the ▲ or ▼ button to select “Added”, then press the ENTER button.

- All channels on the Channel Manager are added and displayed.

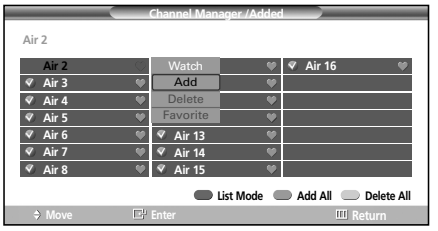


Press the ▲/▼/◄/► button to select a channel, then press the ENTER button and an option window will appear.

Continued...

4 Press the ▲ or ▼ button to select "Delete" to delete a channel, then press the ENTER button; the ✓ mark will disappear.
To select the deselected channel, select "Add" to add a channel by pressing the ▲ or ▼ button.
The ✓ mark will appear.

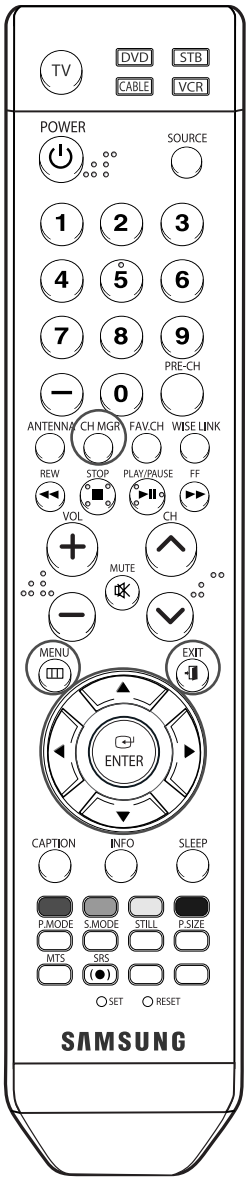
- Red button (Channel Mode) :
  If you press the Red button repeatedly, the All Channel List, the Added Channel List or the Favorite Channel List is selected sequentially.



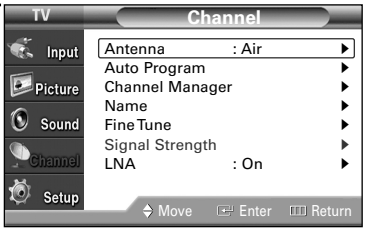
Press the EXIT button to exit.

Default List mode

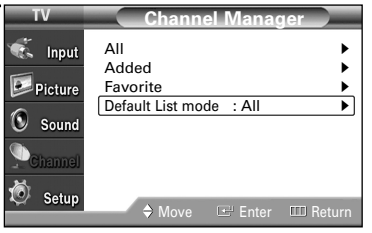
You can set All, Added or Favorite to be the Default List that appears when you press the CH MGR button.



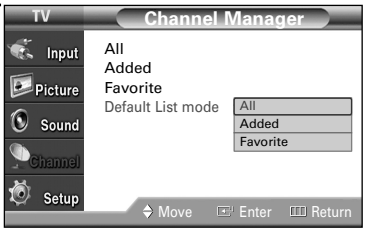
1 Press the MENU button. Press the ▲ or ▼ button to select "Channel", then press the ENTER button.



2 Press the ▲ or ▼ button to select "Channel Manager", then press the ENTER button.



3 Press the ▲ or ▼ button to select "Default List mode", then press the ENTER button. Press the ▲ or ▼ button to select "All", "Added", or "Favorite", then press the ENTER button.

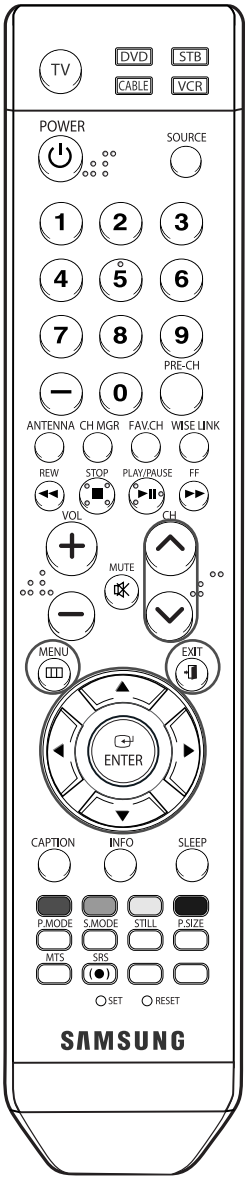


- All: All of the memorized channels
- Added : Added channels
- Favorite : Favorite channels

4 Press the CH MGR button on the remote control, then Default List mode will be displayed.

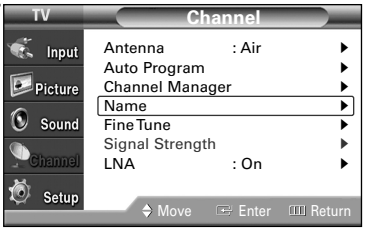
Labeling the Channels

Use this feature to assign an easy-to-remember label to analog channels (i.e., “CBS”, “ESPN”, “PBS2”, CNN02”, etc.) A label consists of five fields, where each field is a letter, a number or a blank. When the INFO button is pressed, the channel label will appear below the channel number.

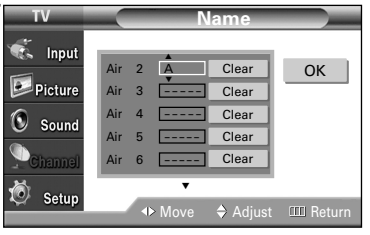


1 Press the CH ∧ or CH ∨ button to tune to the channel that will be labeled.

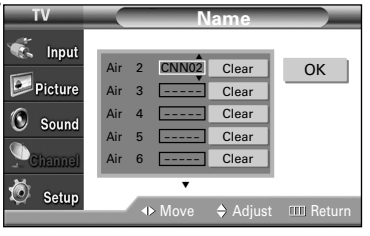
2 Press the MENU button.
Press the ▲ or ▼ button to select “Channel”, then press the ENTER button.
Press the ▲ or ▼ button to select “Name”, then press the ENTER button.



3 Press the ▲ or ▼ button to move to the channel to be assigned to a new name, then press the ENTER button.
Press the ▲ or ▼ button to select a letter, a number or a blank. (Results in this sequence: A...Z, 0...9, +, –, ✻, /, blank).



4 Press the ► button to switch to the next field, which will be selected.
Select a second letter or digit pressing ▲ or ▼ button, as above.
Repeat the process to select the last three digits.
Press the ENTER button.



After all settings are completed, select “OK” using the ► button. Press the ENTER button to save the settings and return to the previous menu.

To erase the assigned new name, select “Clear” by pressing the ◄ or ► button, then press the ENTER button.

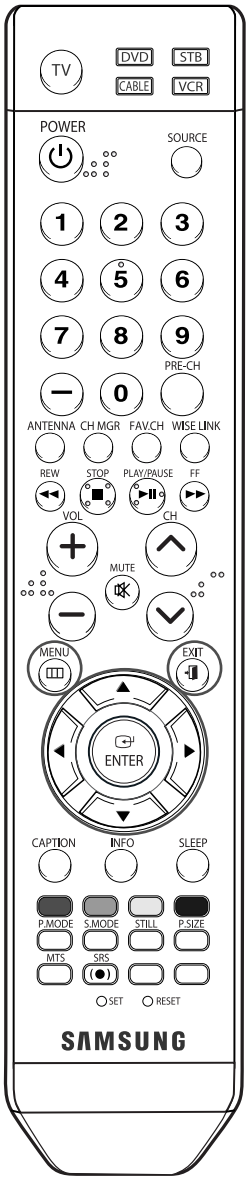
Press the EXIT button to exit.

NOTE

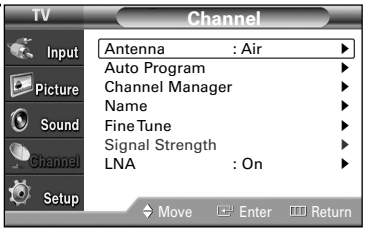
- *If you add or delete a TV channel, the channel label (if set) will also be added or deleted.*

Fine Tuning Analog Channels Analog

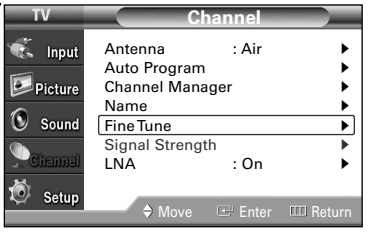
Use fine tuning to manually adjust a particular channel for optimal reception.



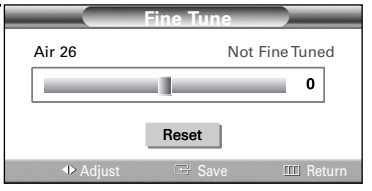
1 Press the MENU button. Press the ▲ or ▼ button to select "Channel", then press the ENTER button.



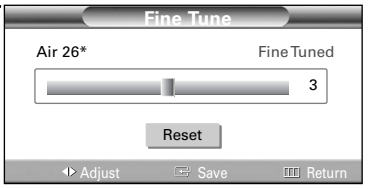
2 Press the ▲ or ▼ button to select "Fine Tune", then press the ENTER button.



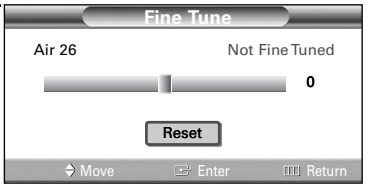
3 Press the ◄ or ► button to adjust the fine tuning.



4 To store the fine tuning setting in the TV's memory, press the ENTER button. To reset the fine tuning setting, press the ▼ button to select "Reset", then press the ENTER button.



5 Press the EXIT button to exit.

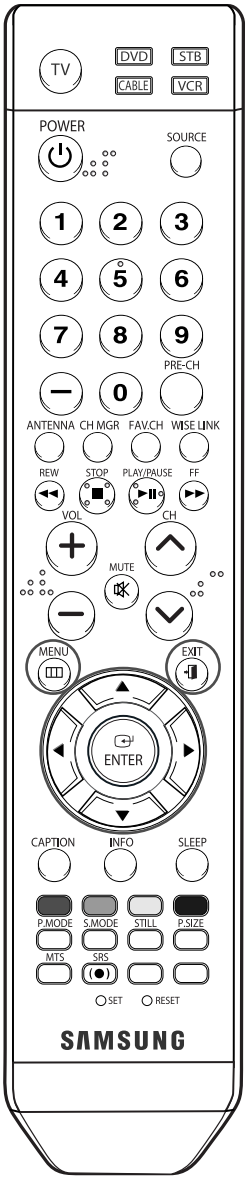


NOTES

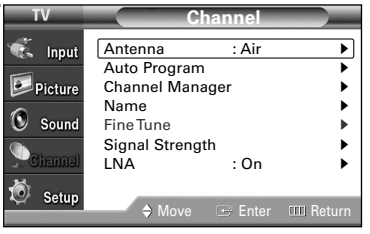
- *Only analog TV channels can be fine tuned.*
- *"*" will appear next to the name of fine-tuned channels.*

Checking the Digital-Signal Strength Digital

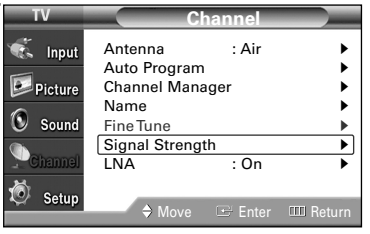
Unlike analog channels, which can vary in reception quality from "snowy" to clear, digital (HDTV) channels have either perfect reception quality or you will not receive them at all. So, unlike analog channels, you cannot fine tune a digital channel.
You can, however, adjust your antenna to improve the reception of available digital channels.



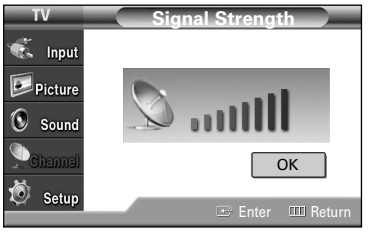
1 Press the MENU button. Press the ▲ or ▼ button to select "Channel", then press the ENTER button.



2 Press the ▲ or ▼ button to select "Signal Strength", then press the ENTER button.



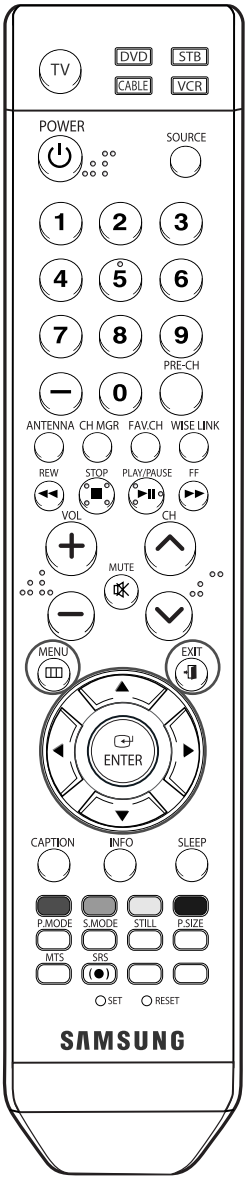
If the signal strength meter indicates that the signal is weak, physically adjust your antenna to increase the signal strength. Continue to adjust the antenna until you find the best position with the strongest signal.



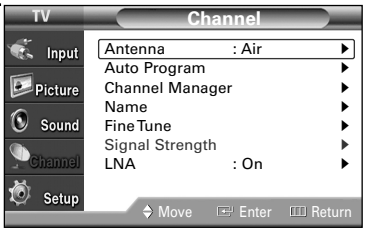
Press the EXIT button to exit.

LNA (Low Noise Amplifier)

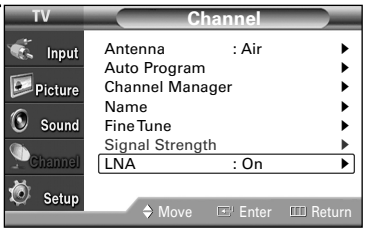
If the TV is operating in a weak-signal area, sometimes the LNA function can improve the reception (a low-noise preamplifier boosts the incoming signal).



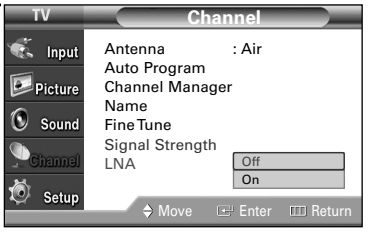
1 Press the MENU button. Press the ▲ or ▼ button to select "Channel", then press the ENTER button.



2 Press the ▲ or ▼ button to select "LNA", then press the ENTER button.



3 Press the ▲ or ▼ button to select "On" or "Off", then press the ENTER button.



4 Press the EXIT button to exit.

NOTES

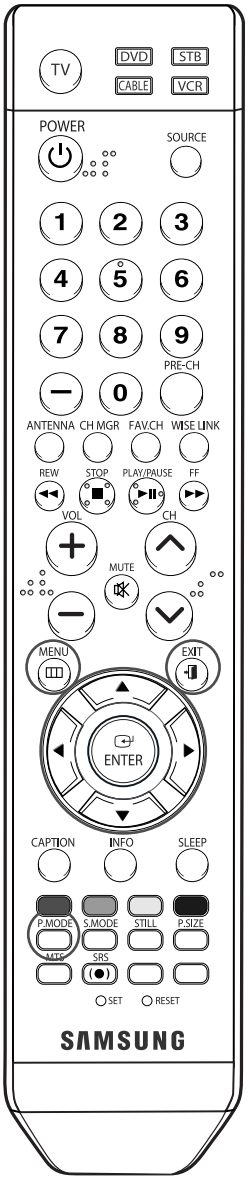
- *LNA functions only when antenna is set to Air. The settings will be stored separately in each channel.*
- *If the picture is noisy with the LNA set to On, select Off.*
- *The LNA setting needs to be set individually for each channel.*

SAMSUNG

Picture Control

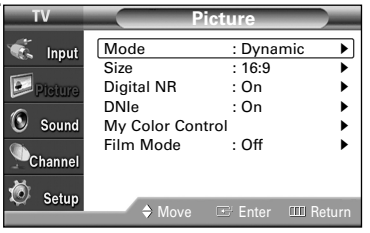
Picture Control

You can select the type of picture which best corresponds to your viewing requirements.

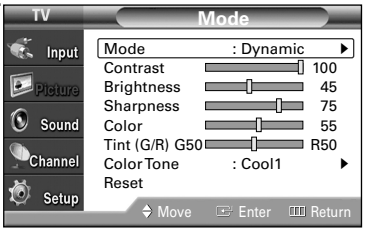


Changing the Picture Standard

1 Press the MENU button. Press the ▲ or ▼ button to select "Picture", then press the ENTER button.

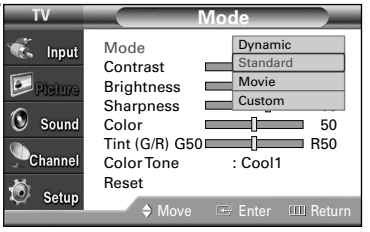


2 Press the ENTER button again to select "Mode".



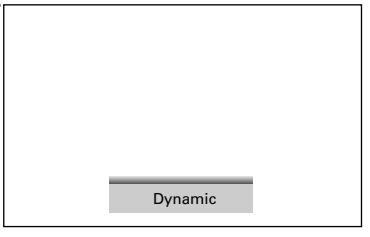
3 Press the ENTER button. Press the ▲ or ▼ button to select the desired picture mode (Dynamic, Standard, Movie, Custom), then press the ENTER button.

Press the EXIT button to exit.



Alternate method

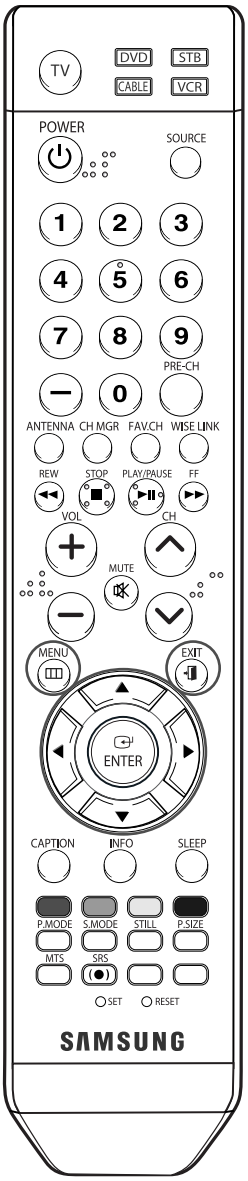
Press the P.MODE button on the remote control repeatedly to select the desired picture mode.



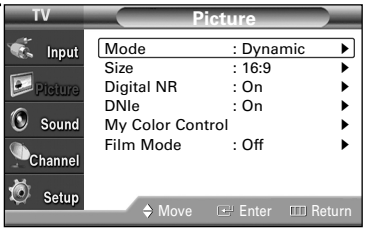
- Choose "Dynamic" for viewing the TV during the day or when there is a bright light in the room.
- Choose "Standard" for general TV watching mode.
- Choose "Movie" when viewing a movie.
- Choose "Custom" if you want to adjust the settings according to personal preference (see "Customizing the Picture Settings", page 61).

Customizing the Picture Settings

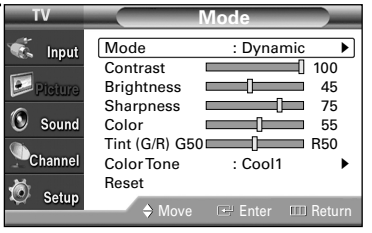
You can use the on-screen menus to change the “Contrast”, “Brightness”, “Sharpness”, “Color”, “Tint”, and “Color Tone” according to personal preference. You can select “Standard” which automatically recalls your personalized picture settings.



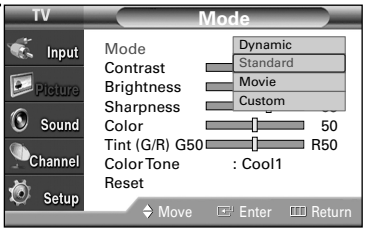
1 Press the MENU button. Press the ▲ or ▼ button to select “Picture”, then press the ENTER button.



2 Press the ENTER button to select “Mode”.



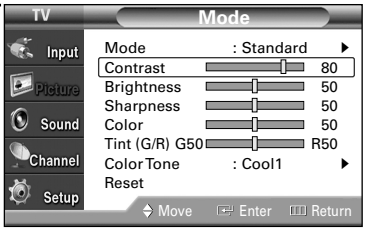
3 Press the ENTER button. Press the ▲ or ▼ button to select the desired picture mode (Dynamic, Standard, Movie, Custom), then press the ENTER button.

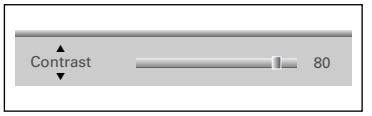


4 Press the ▲ or ▼ button to select a particular option (Contrast, Brightness, Sharpness, Color, or Tint), then press the ENTER button.

Press the ◄ or ► button to decrease or increase the value of a particular item.

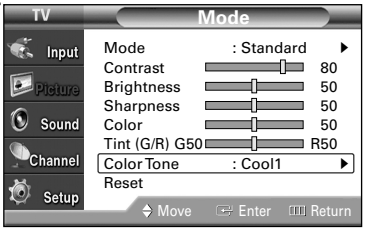
- You can also select these options (Contrast, Brightness, Sharpness, Color, or Tint) by pressing the ▲ or ▼ button.



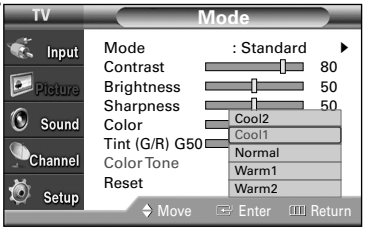


Continued...

5 Press the ENTER button to return to "Mode".
Press the ▲ or ▼ button to select "Color Tone", then press the ENTER button.

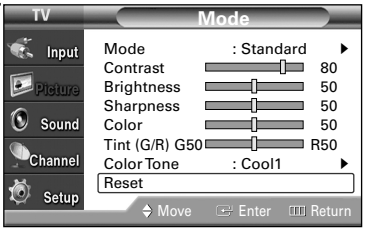


6 Press the ▲ or ▼ button to select a particular option (Cool2, Cool1, Normal, Warm1, or Warm2), then press the ENTER button.



Resetting the Picture Settings to the Factory Defaults

7 To return the factory defaults, select "Reset" by pressing the ▲ or ▼ button. Press the ENTER button.

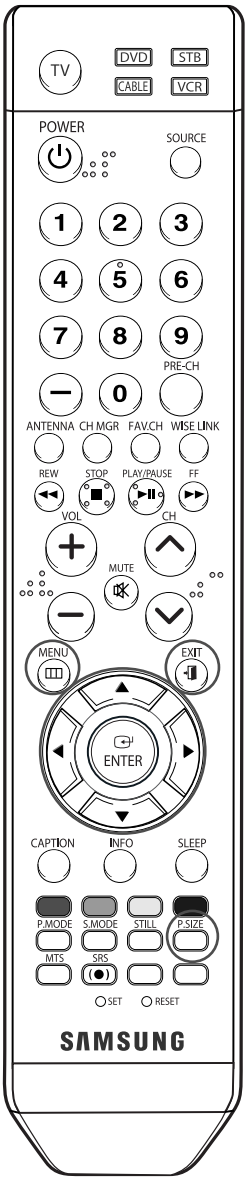


Press the EXIT button to exit.

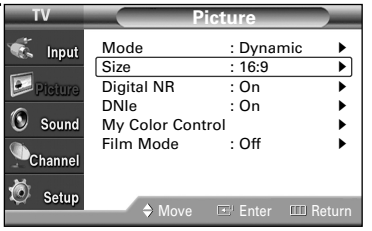
- The previously adjusted settings will be reset to the factory defaults.

Changing the Picture Size

You can select the picture size which best corresponds to your viewing requirements.

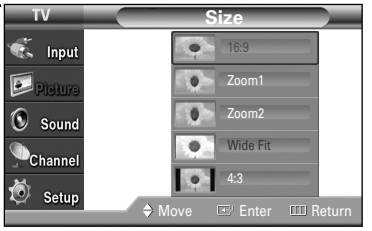


1 Press the MENU button.
Press the ▲ or ▼ button to select “Picture”, then press the ENTER button.
Press the ▲ or ▼ button to select “Size”, then press the ENTER button.



2 Press the ▲ or ▼ button to select the screen format you want, then press the ENTER button.

Press the EXIT button to exit.



Alternate method

Press the P.SIZE button on the remote control repeatedly to select one of the picture size settings.

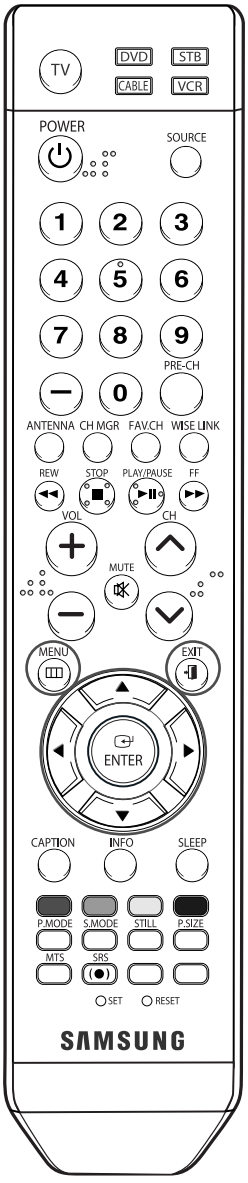
- “16:9”: Sets the picture to 16:9 wide mode.
- “Zoom1”: Magnifies the size of the picture on screen.
- “Zoom2”: Magnifies the size of the picture more than “Zoom1”.
- “Wide Fit”: Enlarges the aspect ratio of the picture to fit the entire screen.
- “4:3”: Sets the picture to 4:3 normal mode.

NOTES

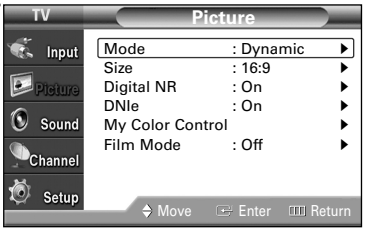
- *You can select only the 16:9 and 4:3 screen sizes in the DTV, Component or HDMI (720p, 1080i) mode.*
- *For Zoom1 and Zoom2, you can adjust the vertical position by using the ▲ or ▼ button after pressing the P.SIZE button on the remote control.*
- *When watching a DTV signal (only 720p, 1080i), you can use Wide Fit. Wide Fit does not support all external devices.*

Digital Noise Reduction

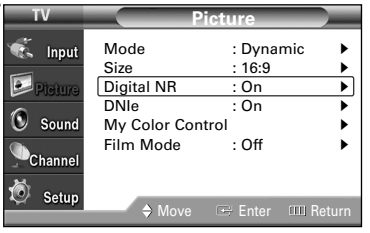
If the broadcast signal received by your TV is weak, you can activate the Digital Noise Reduction feature to help reduce any static and ghosting that may appear on the screen.



1 Press the MENU button. Press the ▲ or ▼ button to select “Picture”, then press the ENTER button.

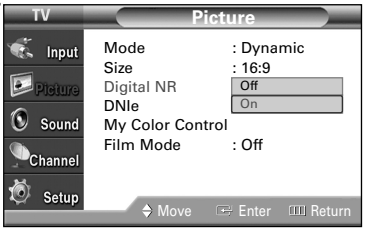


2 Press the ▲ or ▼ button to select “Digital NR”, then press the ENTER button.



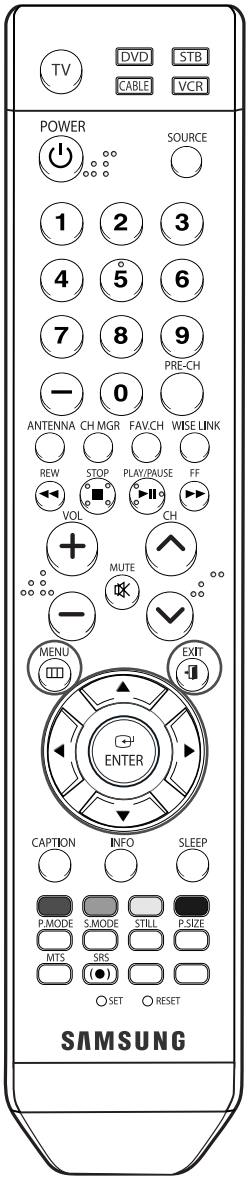
3 Press the ▲ or ▼ button to select “Off” or “On”, then press the ENTER button.

Press the EXIT button to exit.

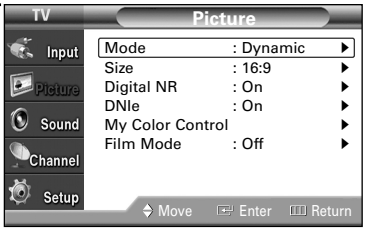


Viewing the DNIe Demonstration

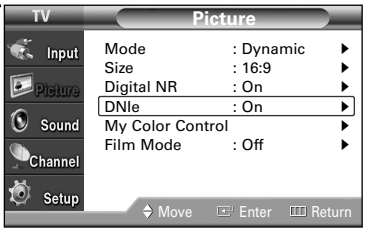
This TV includes the DNIe function so as to provide a high visual quality.
If you set DNIe Demo to On, you can view the applied DNIe and normal pictures on the screen for demonstration purposes. Using this function, you can view the difference in visual quality.



1 Press the MENU button. Press the ▲ or ▼ button to select “Picture”, then press the ENTER button.

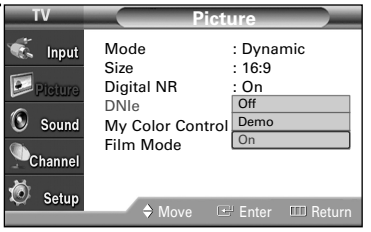


2 Press the ▲ or ▼ button to select “DNIe”, then press the ENTER button.



3 Press the ▲ or ▼ button to select “Off”, “Demo”, or “On”, then press the ENTER button.

Press the EXIT button to exit.



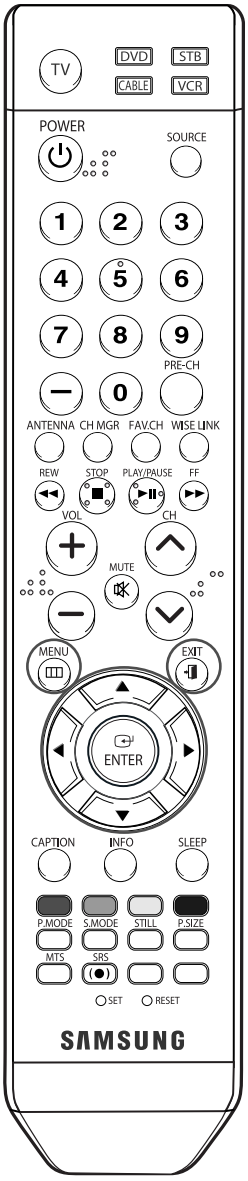
NOTE

- *DNIe™ (Digital Natural Image engine)* **DNIe™**
  This feature brings you more a detailed image with 3D noise reduction and detail, contrast and white enhancement.

Picture Control

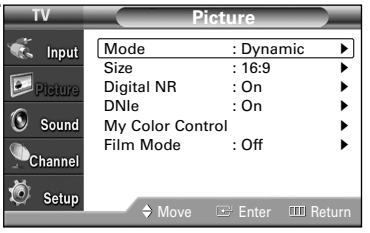
Setting the My Color Control Mode

My Color Control allows you to adjust colors according to your preference, by adjusting skin, sky, and grass tones using the predefined settings ("Blue", "Green", "Pink", "Standard", and "Custom") without affecting other colors on the screen.

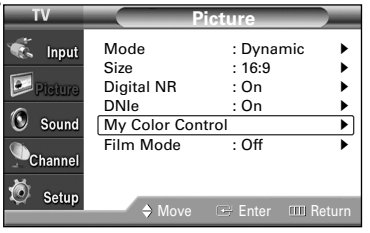


Using the Easy Control Menu

1 Press the MENU button. Press the ▲ or ▼ button to select "Picture", then press the ENTER button.



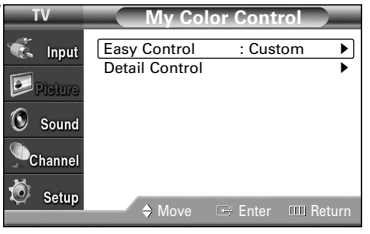
2 Press the ▲ or ▼ button to select "My Color Control", then press the ENTER button.

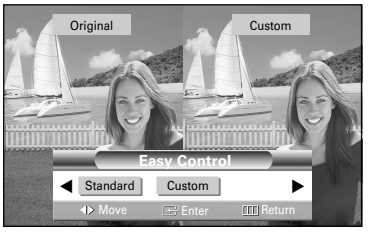


3 Press the ENTER button to select "Easy Control". Press the ◄ or ► button to select one of the picture settings you want. The original picture (before adjustment) is shown on the left side, while the picture after adjustment is shown on the right side, and an adjustment bar is shown on the bottom of the screen.

Press the ENTER button to accept the selected mode.

Press the EXIT button to exit.

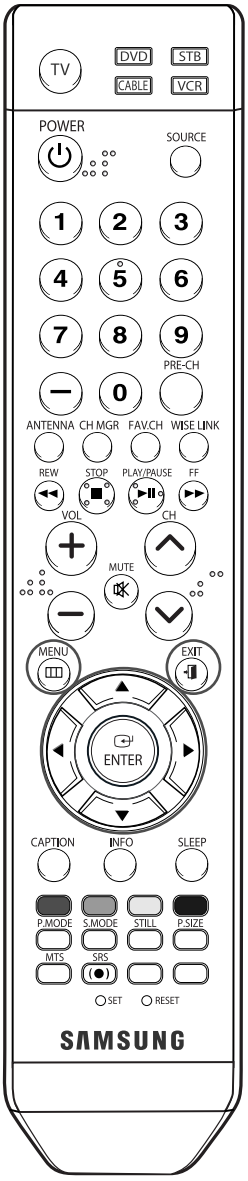




- "Blue": Emphasizes Clear Blues.
- "Green": Emphasizes Mild Greens.
- "Pink": Emphasizes Warm Skin Colors.
- "Standard": Standard Picture.

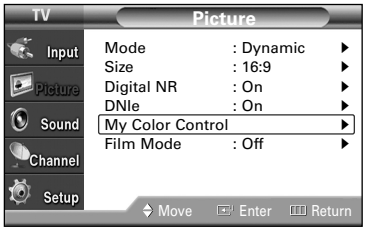
NOTES

- *Changing the settings in the "Detail Control" menu (see next page) will automatically set the My Color Control mode to "Custom".*
- *Pressing the ENTER button on the remote control for 3 seconds when there is no OSD on the screen will display the My Color Control menu.*

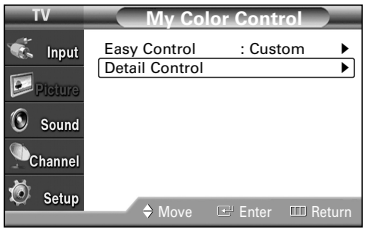


Custom Settings

1 Press the MENU button.
Press the ▲ or ▼ button to select “Picture”, then press the ENTER button.
Press the ▲ or ▼ button to select “My Color Control”, then press the ENTER button.

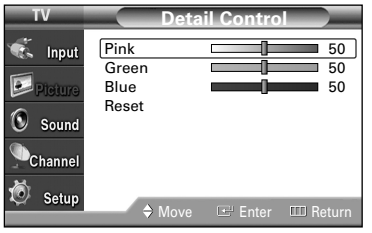


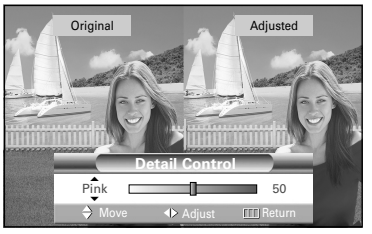
2 Press the ▲ or ▼ button to select “Detail Control”, then press the ENTER button.



3 Press the ▲ or ▼ button to select the desired My Color Control, then press the ENTER button.
There are three colors: “Pink”, “Green” and “Blue”.

Press the ◄ or ► button to adjust the value of the color selected.
Changing the adjustment value will refresh the adjusted screen.



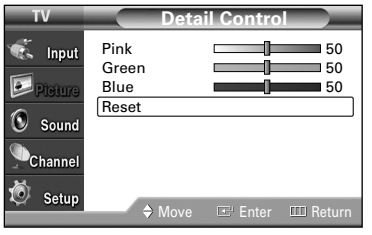


Resetting the My Color Control Colors to the Factory Defaults

You can return to the factory default settings for My Color Control colors.

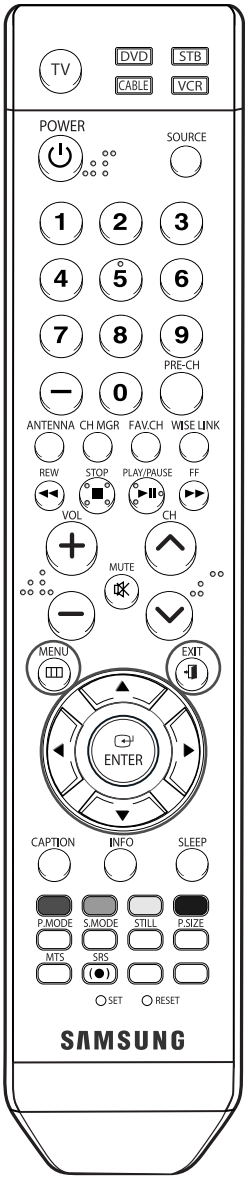
4 Press the MENU button to display the “Detail Control” menu.
Press the ▲ or ▼ button to select “Reset”, then press the ENTER button.
The previously adjusted My Color Control colors will be reset to the factory defaults.

Press the EXIT button to exit.

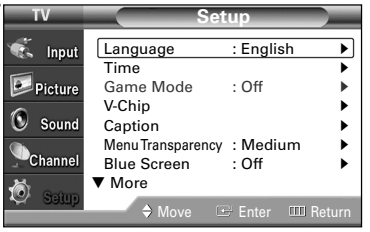


Using the Color Weakness Enhancement Feature

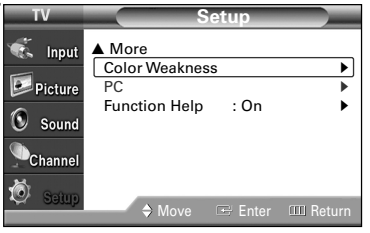
This feature adjusts the Red, Green or Blue color to enhance the picture according to the user's particular color weakness.



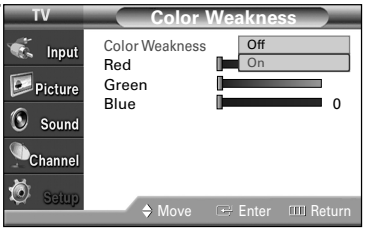
1 Press the MENU button. Press the ▲ or ▼ button to select "Setup", then press the ENTER button.



2 Press the ▲ or ▼ button to select "Color Weakness", then press the ENTER button.



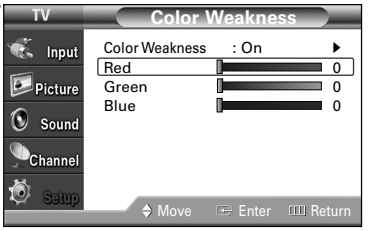
3 Press the ENTER button to select "Color Weakness". Press the ▲ or ▼ button to select "On", then press the ENTER button.

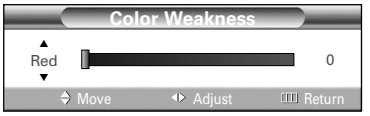


4 Press the ▲ or ▼ button to select a color to be adjusted, then press the ENTER button.

Press the ◄ or ► button to adjust the value of the color selected.

- You can also select these options (Red, Green or Blue) by pressing the ▲ or ▼ button.

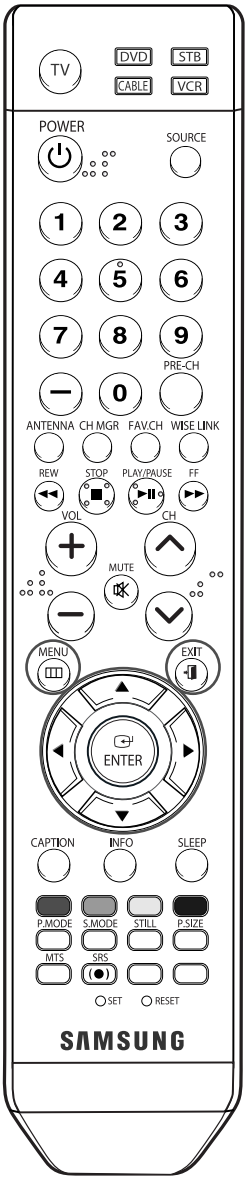




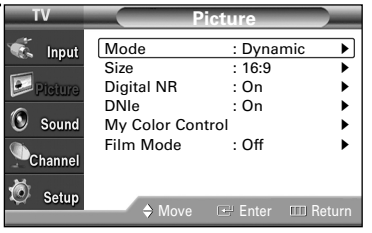
Press the EXIT button to exit.

Setting the Film Mode

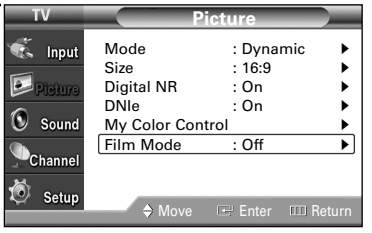
You can automatically sense and process film signals from all sources and adjust the picture for optimum quality.



1 Press the MENU button. Press the ▲ or ▼ button to select “Picture”, then press the ENTER button.

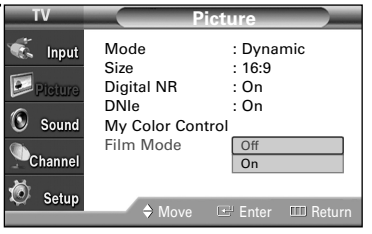


2 Press the ▲ or ▼ button to select “Film Mode”, then press the ENTER button.



3 Press the ▲ or ▼ button to select “Off” or “On”, then press the ENTER button.

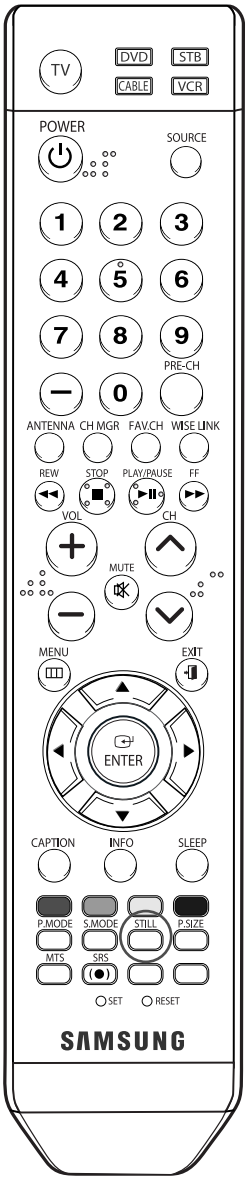
Press the EXIT button to exit.



NOTE

- *Film mode is supported in 480i only.*

Freezing the Picture

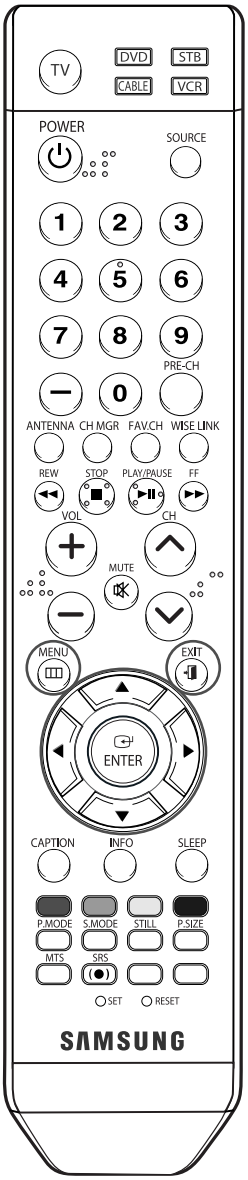


Press the STILL button to freeze a moving picture. (Normal sound will still be heard.)

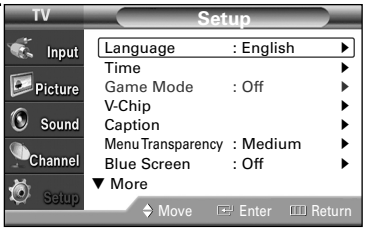
To cancel this function, press the STILL button again or press any button on the remote control.

Setting the Blue Screen Mode

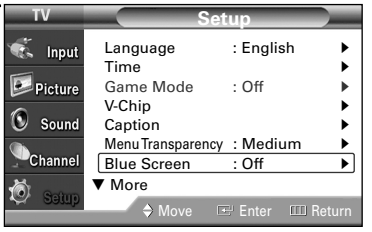
If no signal is being received or the signal is very weak, a blue screen automatically replaces the noisy picture background. If you wish to continue viewing the poor picture, you must set the "Blue Screen" mode to "Off".



1 Press the MENU button. Press the ▲ or ▼ button to select "Setup", then press the ENTER button.

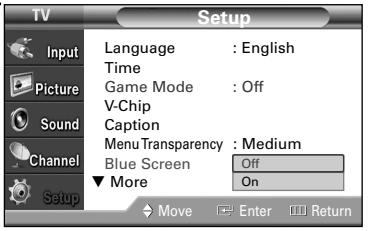


2 Press the ▲ or ▼ button to select "Blue Screen", then press the ENTER button.



3 Press the ▲ or ▼ button to select "Off" or "On", then press the ENTER button.

Press the EXIT button to exit.

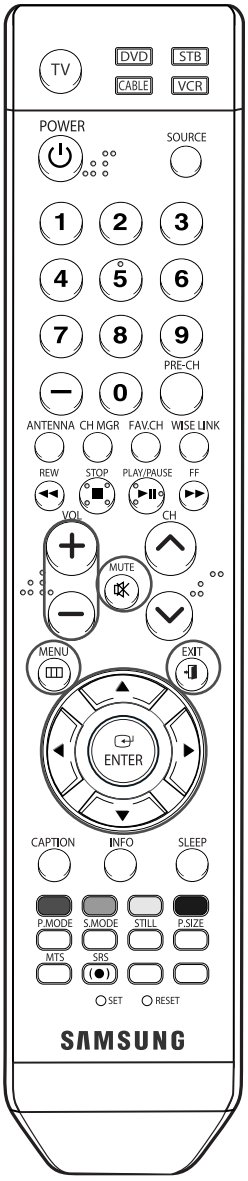


SAMSUNG

Sound Control

Sound Control

You can control and customize the sound levels and settings of the TV with the remote control.

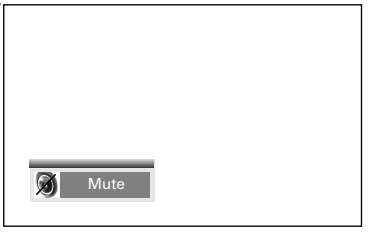


Adjusting the Volume

Press the VOL+ or VOL– button to increase or decrease the volume.

Using the MUTE Button

At any time, you can temporarily cut off the sound.
Press the MUTE button on the remote control.
The message “Mute” is displayed and the sound cuts off.

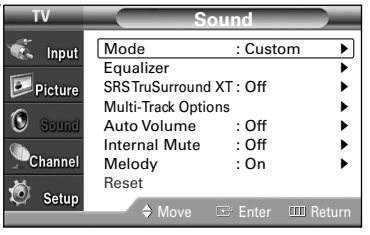


To turn mute off, press the MUTE button again or press either the VOL+ or VOL– button.

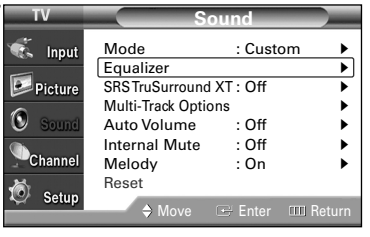
Customizing the Sound

The sound settings can be adjusted to suit your personal preference. (Alternatively, you can use one of the automatic settings. See next page.)

1 Press the MENU button. Press the ▲ or ▼ button to select “Sound”, then press the ENTER button.



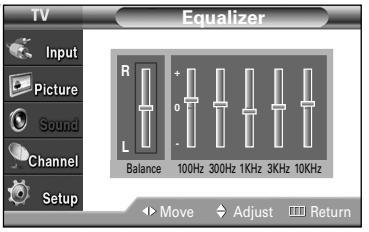
2 Press the ▲ or ▼ button to select “Equalizer”, then press the ENTER button.



Continued...

3 Press the ◄ or ► button to select a particular item to be changed.
Press the ▲ or ▼ button to increase or decrease the selected frequency.

Press the EXIT button to exit.



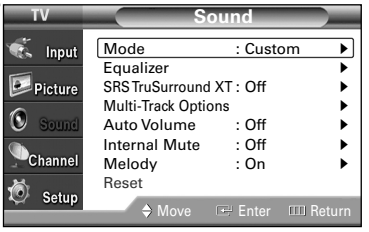
NOTES

- *If you make any changes to the equalizer settings, the sound mode is automatically switched to the custom mode.*
- ***L/R Sound Balance Adjustment***
  To adjust the sound balance of the L/R speakers.
- ***Bandwidth Adjustment (100Hz, 300Hz, 1KHz, 3KHz, 10KHz)***
  To adjust the level of different bandwidth frequencies.

Using Automatic Sound Settings

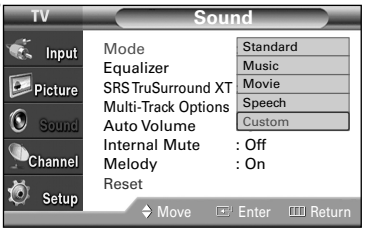
Your TV has automatic sound settings ("Standard", "Music", "Movie", and "Speech") that are preset at the factory. You can select "Custom", which automatically recalls your personalized sound settings.

1 Press the MENU button.
Press the ▲ or ▼ button to select "Sound", then press the ENTER button.



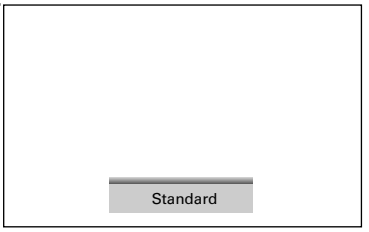
2 Press the ENTER button to select "Mode".
Press the ▲ or ▼ button to select a particular item, then press the ENTER button.

Press the EXIT button to exit.



Alternate method

Press the S.MODE button on the remote control repeatedly to select one of the standard sound settings.



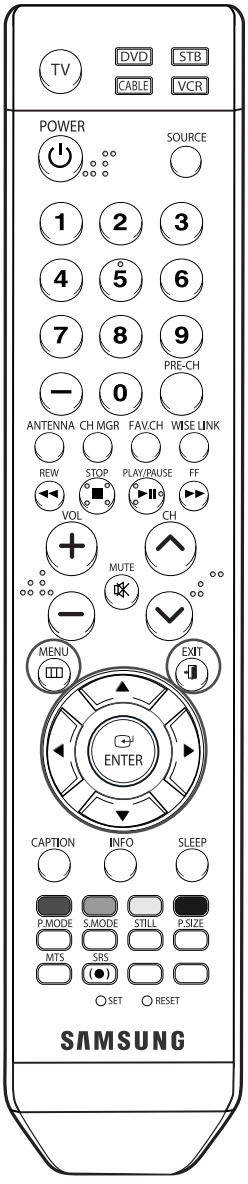
NOTES

- *Choose Standard for the standard factory settings.*
- *Choose Music when watching music videos or concerts.*
- *Choose Movie when watching movies.*
- *Choose Speech when watching a show that is mostly dialog (i.e., news).*
- *Choose Custom to recall your personalized settings (see "Customizing the Sound", page 74).*

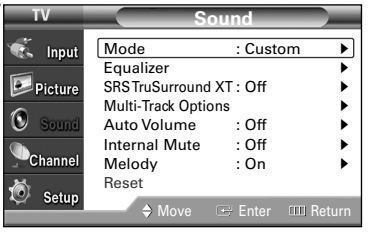
Sound Control

Auto Volume

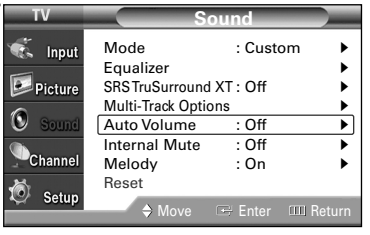
Each broadcasting station has its own signal conditions, and it is inconvenient to adjust the volume every time the channel is changed. "Auto Volume" automatically adjusts the volume of the desired channel by lowering the sound output when the modulation signal is high or by raising the sound output when the modulation signal is low.



1 Press the MENU button. Press the ▲ or ▼ button to select "Sound", then press the ENTER button.

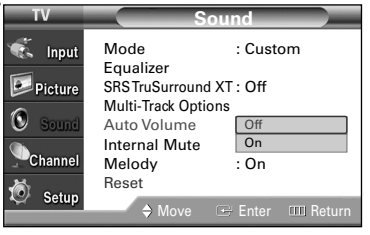


2 Press the ▲ or ▼ button to select "Auto Volume", then press the ENTER button.



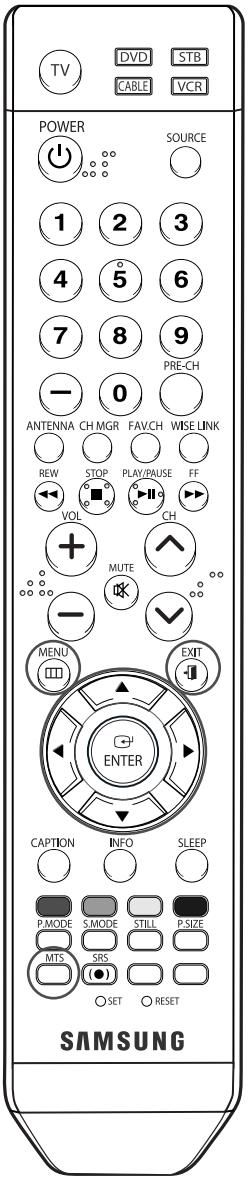
3 Press the ▲ or ▼ button to select "Off" or "On", then press the ENTER button.

Press the EXIT button to exit.

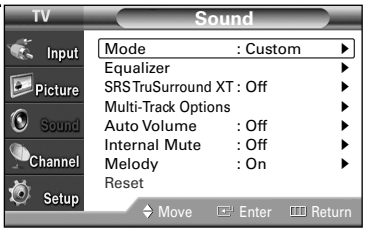


Choosing a Multi-Channel Sound (MTS) track Digital

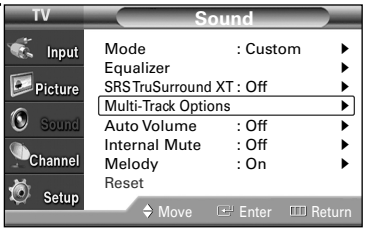
The digital-TV transmission system is capable of simultaneous transmission of many audio tracks (for example, simultaneous translations of the program into foreign languages).
The availability of these additional "multitracks" depends upon the program.



1 Press the MENU button. Press the ▲ or ▼ button to select "Sound", then press the ENTER button.

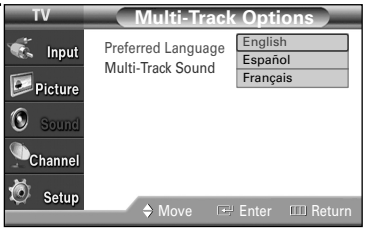


2 Press the ▲ or ▼ button to select "Multi-Track Options", then press the ENTER button.



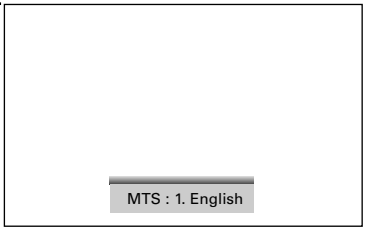
3 Press the ENTER button to select "Preferred Language". Press the ▲ or ▼ button to choose the language (English, Spanish or French) you want, then press the ENTER button.

Press the EXIT button to exit.



Alternate method

Press the MTS button on the remote control.
You can listen in a language other than the favorite language by pressing the MTS button.



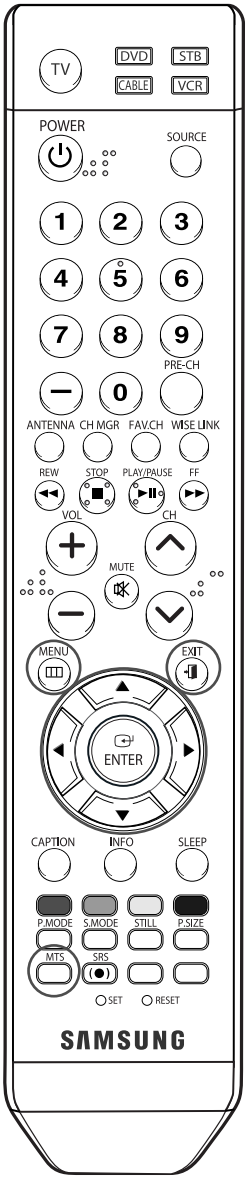
NOTE

- *You can only select the language from among the actual languages broadcast by the station.*
  For example, if the current program is not broadcast in French, yet you select French as your Preferred language, you will hear the default language (e.g. English) determined by the broadcasting station.

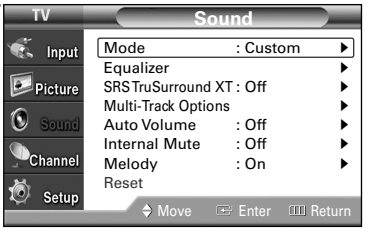
Sound Control

Choosing a Multi-Channel Sound (MTS) track Analog

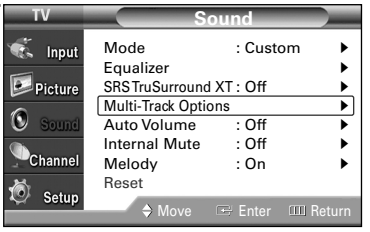
Depending on the particular program being broadcast, you can listen to Mono, Stereo or SAP.



1 Press the MENU button. Press the ▲ or ▼ button to select "Sound", then press the ENTER button.

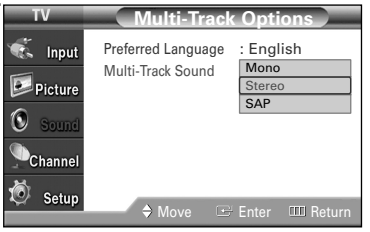


2 Press the ▲ or ▼ button to select "Multi-Track Options", then press the ENTER button.



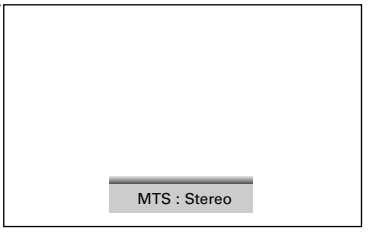
3 Press the ▲ or ▼ button to select "Multi-Track Sound", then press the ENTER button. Press the ▲ or ▼ button to select a setting you want, then press the ENTER button.

Press the EXIT button to exit.



Alternate method

Press the MTS button on the remote control repeatedly to select an external signal source.

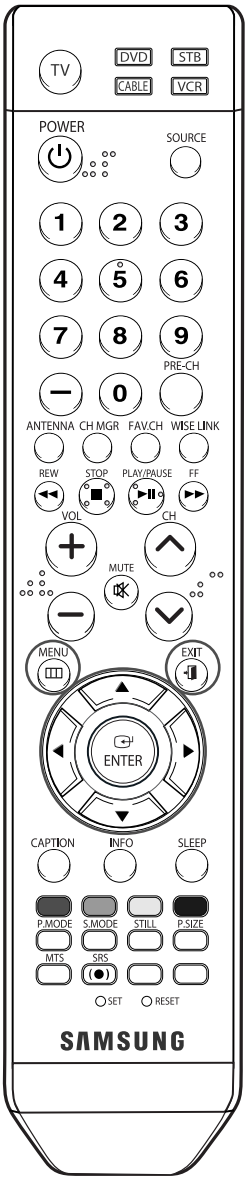


NOTES

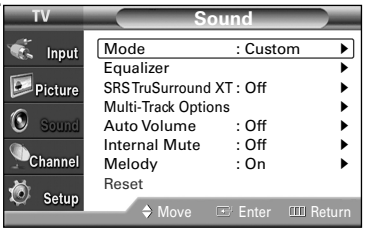
- *Choose "Mono" for channels that are broadcasting in mono, or if you are having difficulty receiving a stereo signal.*
- *Choose "Stereo" for channels that are broadcasting in stereo.*
- *Choose "SAP" to listen to the Separate Audio Program, which is usually a foreign-language translation.*

Selecting the Internal Mute

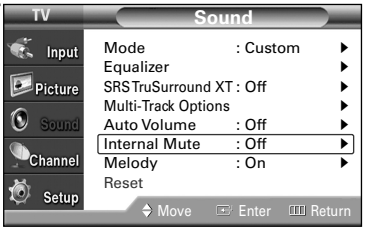
When using a device such as a Home Theater or Amplifier with external speakers, you can set Internal Mute to On to cut off sound from the TV's internal speakers.



1 Press the MENU button. Press the ▲ or ▼ button to select "Sound", then press the ENTER button.

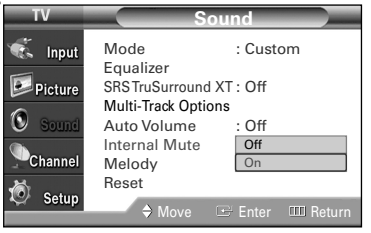


2 Press the ▲ or ▼ button to select "Internal Mute", then press the ENTER button.



3 Press the ▲ or ▼ button to select "On", then press the ENTER button.
Pressing the ▲ or ▼ button will alternate between "Off" and "On".

Press the EXIT button to exit.



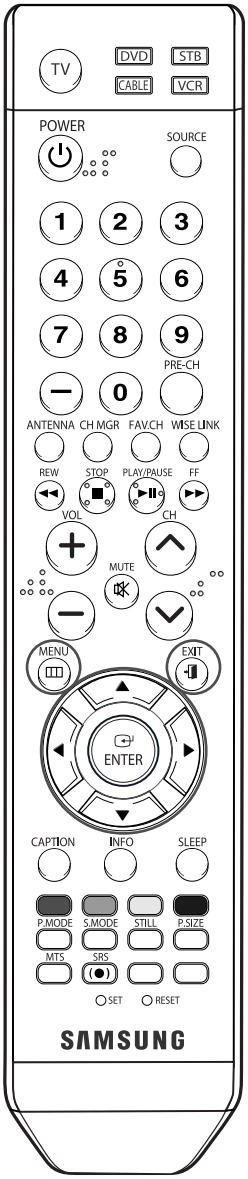
NOTES

- *The VOL +, VOL – and MUTE buttons do not operate when the Internal Mute is set to On.*
- *When Internal Mute is set to "On", Sound menus except Multi-Track Options cannot be adjusted.*

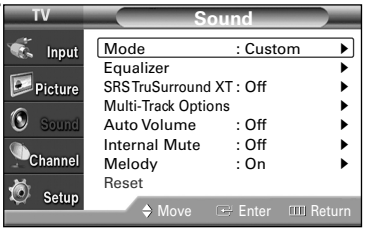
Sound Control

Setting the On/Off Melody

A melody sound can be set to come on when the TV is powered on or off.

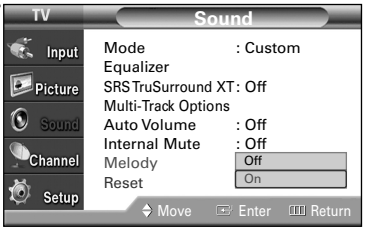


1 Press the MENU button.
Press the ▲ or ▼ button to select "Sound", then press the ENTER button.



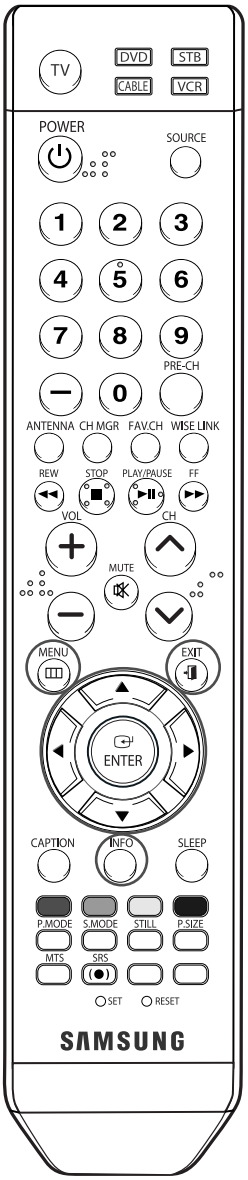
2 Press the ▲ or ▼ button to select "Melody", then press the ENTER button.
Press the ▲ or ▼ button to select "Off" or "On", then press the ENTER button.

Press the EXIT button to exit.

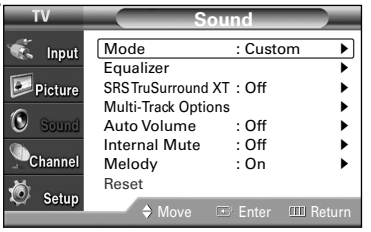


Setting the SRS TSXT

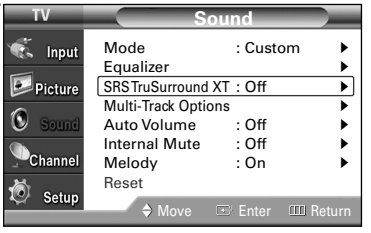
TruSurround XT is a patented SRS technology that solves the problem of playing 5.1 multichannel content over two speakers. Trusurround delivers a compelling, virtual surround sound experience through any two-speaker playback system, including internal television speakers. It is fully compatible with all multichannel formats.



1 Press the MENU button. Press the ▲ or ▼ button to select "Sound", then press the ENTER button.

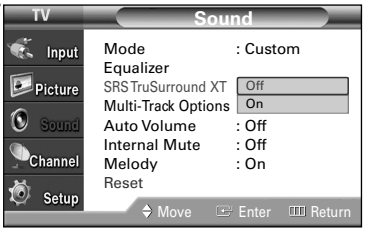


2 Press the ▲ or ▼ button to select "SRS TruSurround XT", then press the ENTER button.



3 Press the ▲ or ▼ button to select "Off" or "On", then press the ENTER button.

Press the EXIT button to exit.



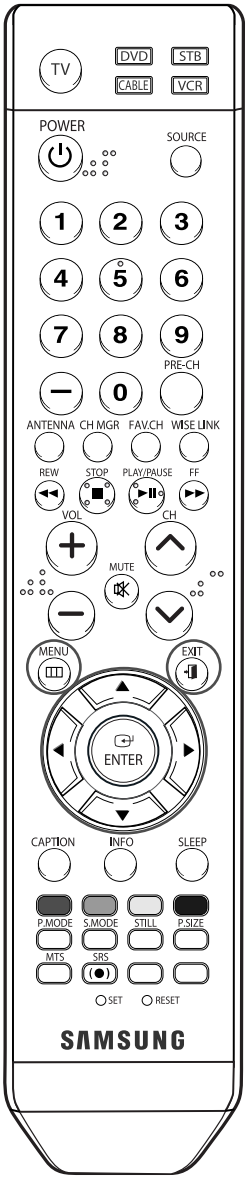
NOTE

- *Press the INFO button on the remote control to see the current status of sound settings.*

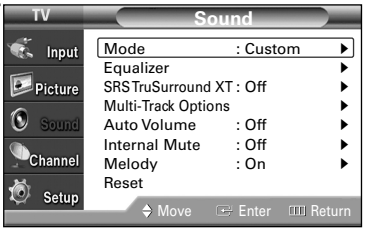
Sound Control

Sound Reset

If Game Mode is On (Refer to page 86), the Reset Sound function is activated. Selecting the Reset function after setting the equalizer resets the equalizer to the factory defaults.



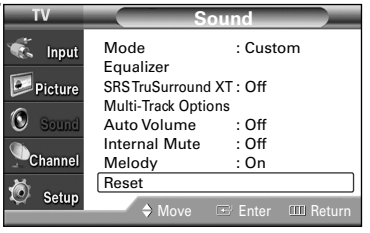
1 Press the MENU button. Press the ▲ or ▼ button to select "Sound", then press the ENTER button.



< If Game Mode is On >

2 Press the ▲ or ▼ button to select "Reset", then press the ENTER button.

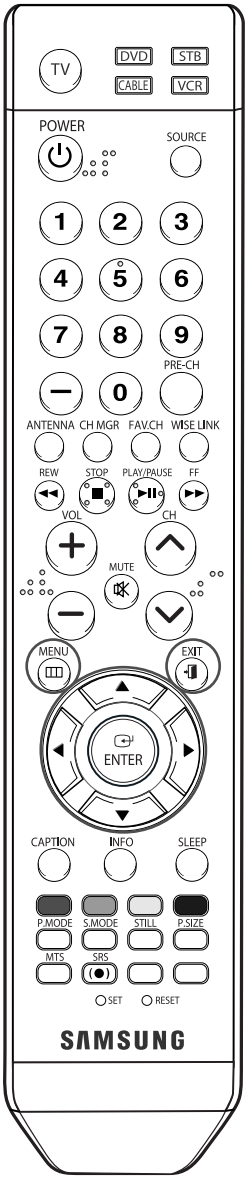
Press the EXIT button to exit.



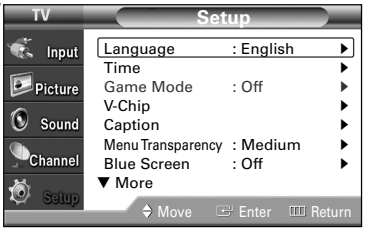
Special Features

Setting the Function Help

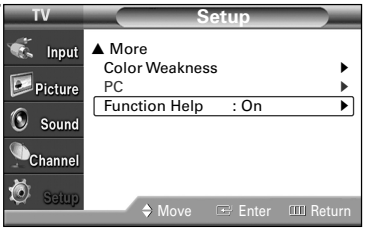
Displays Help on the menu functions.



1 Press the MENU button. Press the ▲ or ▼ button to select "Setup", then press the ENTER button.

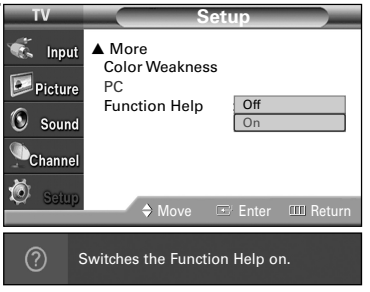


2 Press the ▲ or ▼ button to select "Function Help", then press the ENTER button.



3 Press the ▲ or ▼ button to select "Off" or "On", then press the ENTER button.

Press the EXIT button to exit.

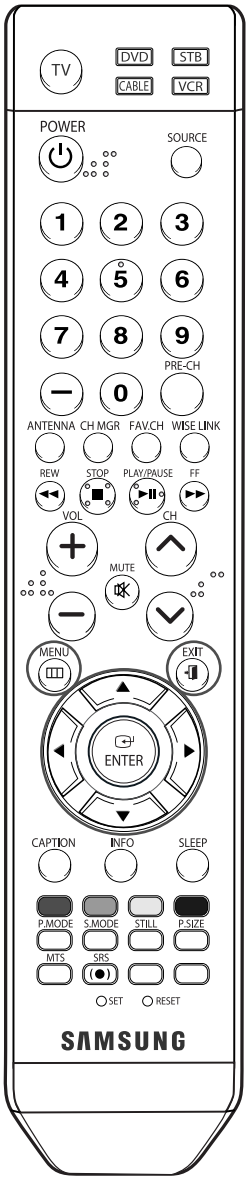


NOTE

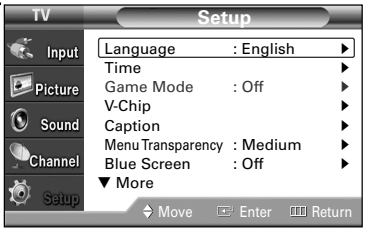
- *The function Help default setting is On.*

Menu Transparency Level

Adjusts the transparency of the menu screen.

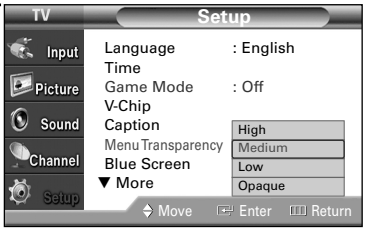


1 Press the MENU button. Press the ▲ or ▼ button to select "Setup", then press the ENTER button.



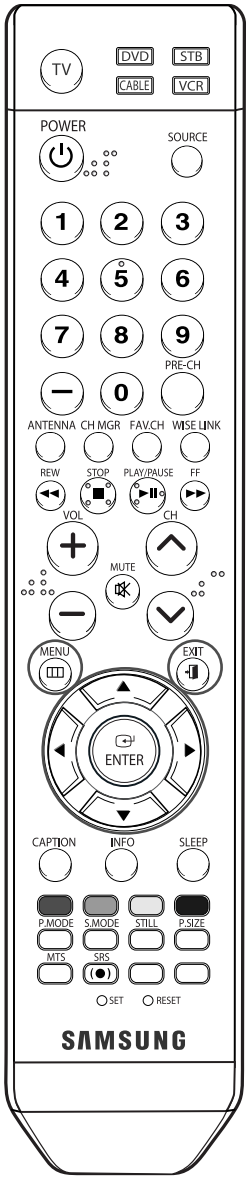
2 Press the ▲ or ▼ button to select "Menu Transparency", then press the ENTER button. Press the ▲ or ▼ button to select level, then press the ENTER button.

Press the EXIT button to exit.

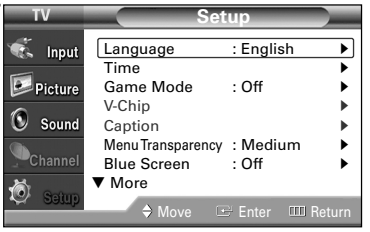


Using Game Mode

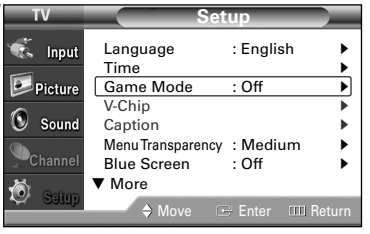
When connecting to a game console such as PlayStation™ or Xbox™, you can enjoy a more realistic gaming experience by selecting the game mode to on.



1 Press the MENU button. Press the ▲ or ▼ button to select "Setup", then press the ENTER button.

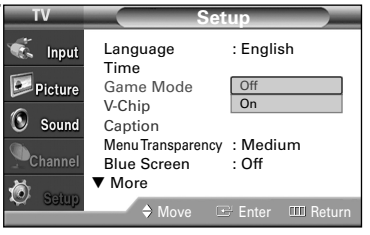


2 Press the ▲ or ▼ button to select "Game Mode", then press the ENTER button.



3 Press the ▲ or ▼ button to select "Off" or "On", then press the ENTER button.

Press the EXIT button to exit.



Restrictions on Game Mode (Caution)

- To disconnect the game console and connect another external device, set Game to Off in the setup menu.
- If you display the TV menu in Game mode, the screen shakes slightly.

If Game Mode is On

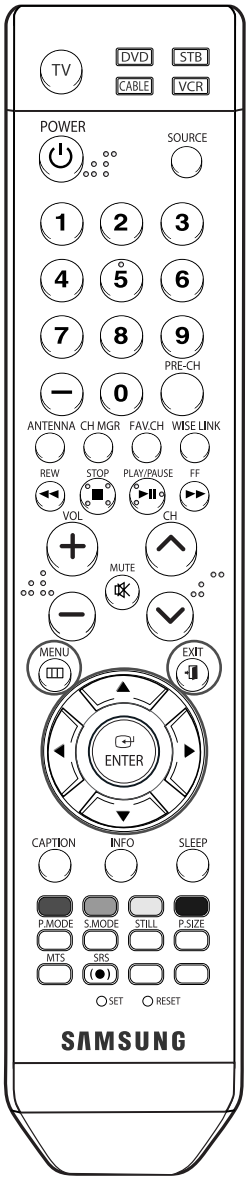
- Picture Mode is automatically changed to Custom and users cannot change the mode.
- Sound Mode in the Sound menu is deactivated. Adjust the sound using the equalizer.
- The Reset Sound function is activated. Selecting the Reset function after setting the equalizer resets the equalizer to the factory defaults.

NOTES

- *Game Mode is available for all external input sources.*
- *For component and HDMI input, game mode supports a resolution of up to 720p.*

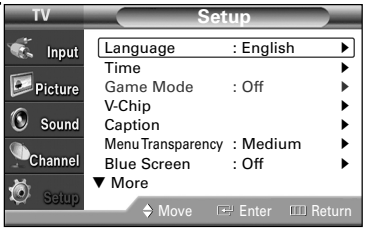
Using the V-Chip

Access to channels and programs is controlled by a password (i.e., a 4-digit secret code that is defined by the user). The on-screen menu will instruct you to assign a password (you can change it later, if necessary).

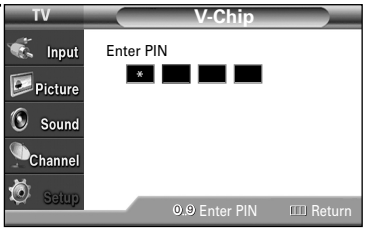


How to Change Your Password

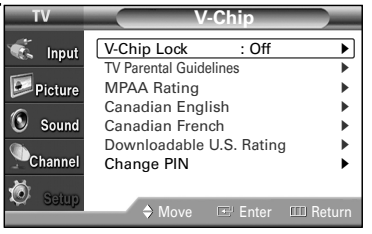
1 Press the MENU button.
Press the ▲ or ▼ button to select "Setup", then press the ENTER button.
Press the ▲ or ▼ button to select "V-Chip", then press the ENTER button.



2 Press the number buttons to enter your current 4-digit PIN. (The default PIN for a new TV set is "0000".)
"V-Chip" menu is displayed.

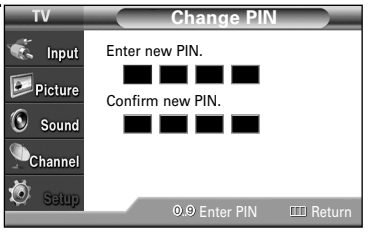


3 Press the ▲ or ▼ button to select "Change PIN", then press the ENTER button.



4 Press the number buttons to enter your new 4-digit PIN. Re-enter your new PIN to confirm.

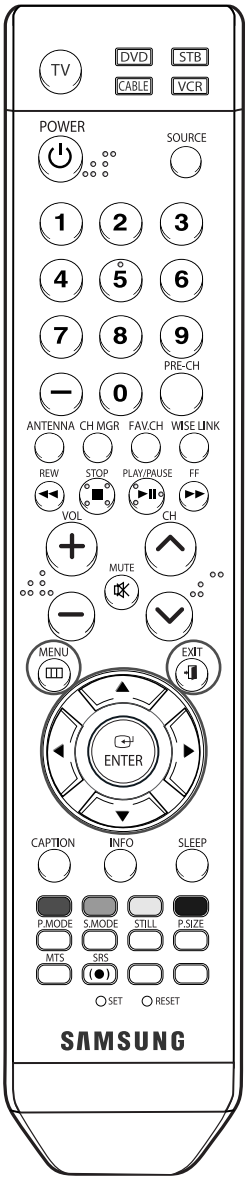
Press the EXIT button to exit.



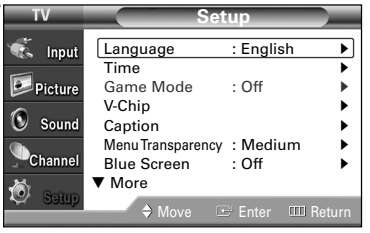
NOTES

- *If you forget the PIN, press the remote control buttons in the following sequence, which resets the PIN to 0-0-0-0: POWER (Off), MUTE, 8, 2, 4, POWER (On).*
- *The V-Chip function only works in TV, AV mode and S-Video mode.*

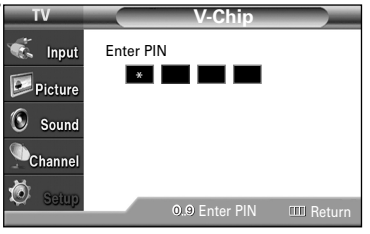
How to Enable/Disable the Rating Controls



1 Press the MENU button.
Press the ▲ or ▼ button to select "Setup", then press the ENTER button.
Press the ▲ or ▼ button to select "V-Chip", then press the ENTER button.

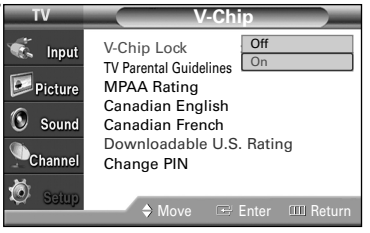


2 Press the number buttons to enter your current 4-digit PIN. (The default PIN for a new TV set is "0000".)
"V-Chip" menu is displayed.



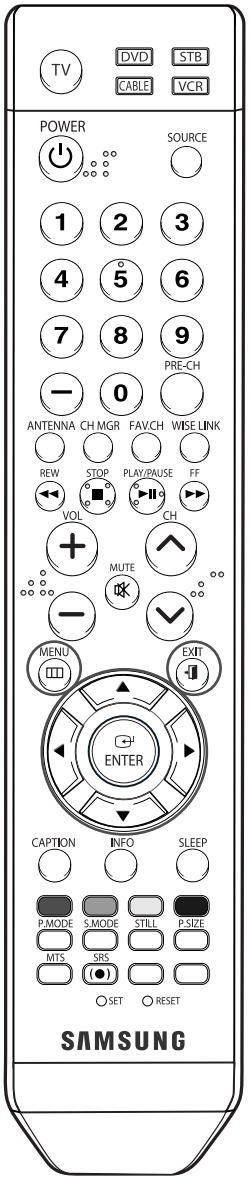
3 "V-Chip" screen will appear. To enable the V-Chip feature, press the ENTER button so that "V-Chip Lock" field is "On". (Pressing the ▲ or ▼ button will alternate between "Off" and "On".)
Press the ENTER button.

Press the EXIT button to exit.

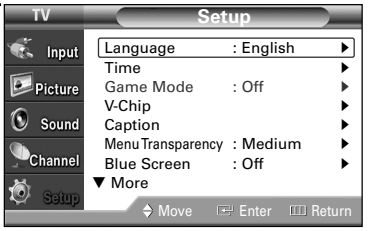


How to Set up Restrictions Using “TV Parental Guidelines”

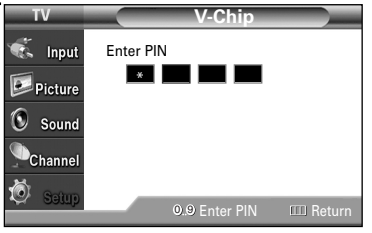
The parental restrictions can be set up using either of two methods: “TV Parental Guidelines” or “MPAA Rating”.



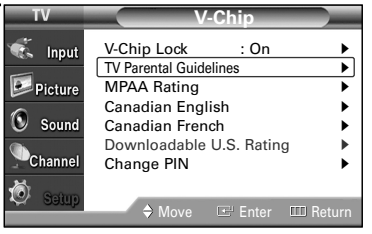
1 Press the MENU button.
Press the ▲ or ▼ button to select “Setup”, then press the ENTER button.
Press the ▲ or ▼ button to select “V-Chip”, then press the ENTER button.



2 Press the number buttons to enter your current 4-digit PIN. (The default PIN for a new TV set is “0000”.)
“V-Chip” menu is displayed.



3 Press the ▲ or ▼ button to select “TV Parental Guidelines”, then press the ENTER button.



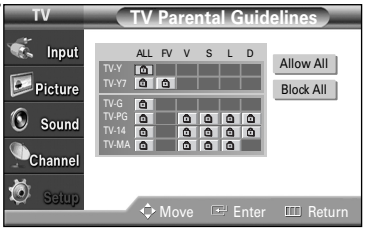
continued...

4 You can independently lock the TV ratings. The locked TV (FCC) ratings are indicated by the symbol "🔒".
To unlock a locked channel, press the ENTER button again.

Press the ▲/▼/◄/► buttons and the ENTER button to activate the appropriate restrictions for TV (FCC) rating system.

TV-Y : Young children
TV-Y7 : Children 7 and over
TV-G : General audience
TV-PG : Parent Guidance
TV-14 : Viewers 14 and over
TV-MA : Mature Audience

Press the EXIT button to exit.



NOTES

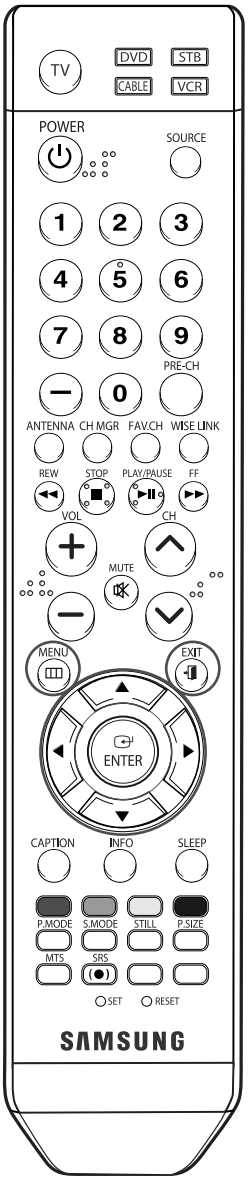
- *Allow All : Press to unlock all TV ratings.*
- *Block All : Press to lock all TV ratings.*

NOTES

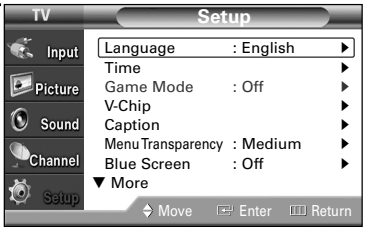
- *These categories consist of two separate groups: "TV-Y" and "TV-Y7" (young children through age 7), and "TV-G" through "TV-MA" (everybody else).*
- *The restrictions for these two groups work independently: If a household includes very young children as well as young adults, the TV parental guidelines must be set up separately for each age group. (See page 92.)*

How to Set up Restrictions Using “MPAA Rating”

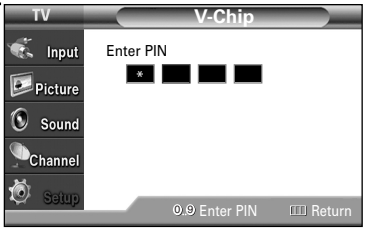
The Movie rating system uses “MPAA” (Motion Picture Association of America) system, and its main application is for movies.
When the rating control is on, the TV will automatically block any programs that are coded with objectionable ratings (either “MPAA Rating” or “TV Parental Guidelines”).



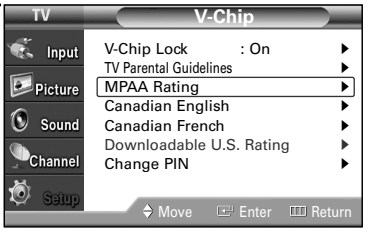
1 Press the MENU button.
Press the ▲ or ▼ button to select “Setup”, then press the ENTER button.
Press the ▲ or ▼ button to select “V-Chip”, then press the ENTER button.



2 Press the number buttons to enter your current 4-digit PIN. (The default PIN for a new TV set is “0000”.)
“V-Chip” menu is displayed.



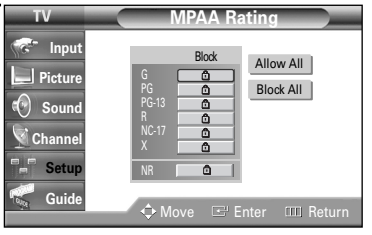
3 Press the ▲ or ▼ button to select “MPAA Rating”, then press the ENTER button.



4 You can independently lock the movie ratings. The locked movie ratings are indicated by the symbol “🔒”.
To unlock a locked channel, press the ENTER button again.

Press the ▲/▼/ENTER buttons to activate the appropriate restrictions for movie rating system.

Press the EXIT button to exit.



NOTES

- *Allow All : Press to unlock all movie ratings.*
- *Block All : Press to lock all movie ratings.*

Important Notes About Parental Locks
Explanation of the MPAA and TV (FCC) Rating Systems:

TV (FCC) Age-Based Ratings

TV-MA
Mature audiences only. This program may contain mature themes, profane language, graphic violence and explicit sexual content.

TV-14
Parents strongly cautioned. This program may contain sophisticated themes, sexual content, strong language and more intense violence.

TV-PG
Parental guidance suggested. The program may contain infrequent coarse language, limited violence, some suggestive sexual dialog and situations.

TV-G
General audience. It contains little or no violence, no strong language, and little or no sexual dialog or situations.

TV-Y7
Directed to older children. Themes and elements in this program may include mild physical or comedic violence, or may frighten children under the age of seven.

TV-Y
All children. The themes and elements in this program are specifically designed for a very young audience, including children from ages two – six.

TV (FCC) Content Category

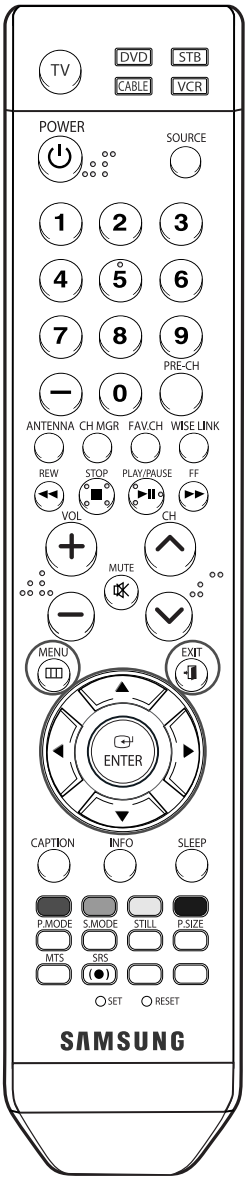
V	Violence.
S	Sexual content.
L	Offensive language.
D	Dialog sexual innuendo.
FV	Fantasy or cartoon violence.

MPAA Rating System (Movies)

G	General audience. No restriction.
PG	Children under 13 should be accompanied by an adult.
PG-13	Parental guidance suggested. Children under 13 should be accompanied by an adult.
R	Restricted. Viewers should be 17 or older.
NC-17	Not classified. Viewers should be 17 or older.
X	Adults only.
NR	Not rated.

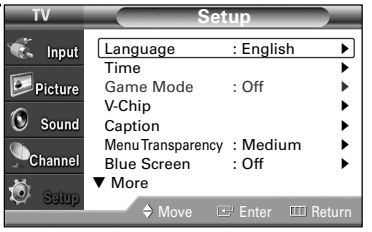
- TV (FCC) ratings : The particular rating that you have selected will be locked (and indicated as a red “L” on a blue background). Also, all of the age-based ratings will be locked within the particular group (i.e., “group 1” or “group 2”). Suppose that the TV-G rating and all of its contents (V, S, L, and D) are locked. In that case, more restrictive ratings (TV-PG, TV-14, and TV-MA) and all of their contents (V, S, L, and D) are automatically locked as well.
- MPAA ratings : The particular rating that you have selected will be locked. In addition, more restrictive ratings will be locked as well.
- Neither TV (FCC) ratings nor MPAA ratings apply to news programs.

How to Set up Restrictions Using Canadian English

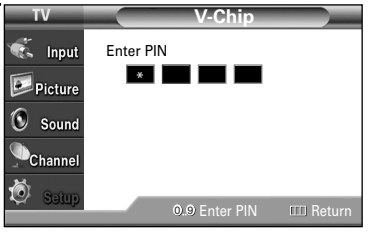


1 Press the MENU button. Press the ▲ or ▼ button to select “Setup”, then press the ENTER button.

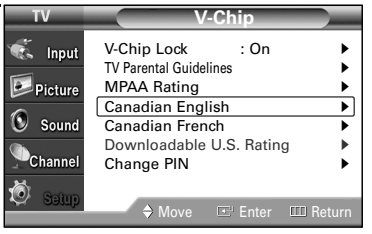
Press the ▲ or ▼ button to select “V-Chip”, then press the ENTER button.



2 Press the number buttons to enter your current 4-digit PIN. (The default PIN for a new TV set is “0000”.) “V-Chip” menu is displayed.



3 Press the ▲ or ▼ button to select “Canadian English”, then press the ENTER button.

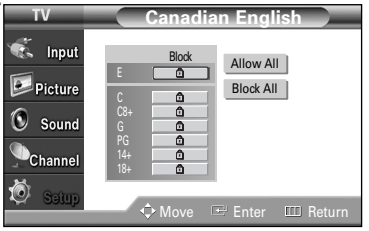


continued...

4 Press the ▲ or ▼ button to select a appropriate restriction.

Press the ENTER button to activate the restriction selected.
"🔒" symbol is indicated.
To unlock a locked channel, press the ENTER button again.

Press the EXIT button to exit.

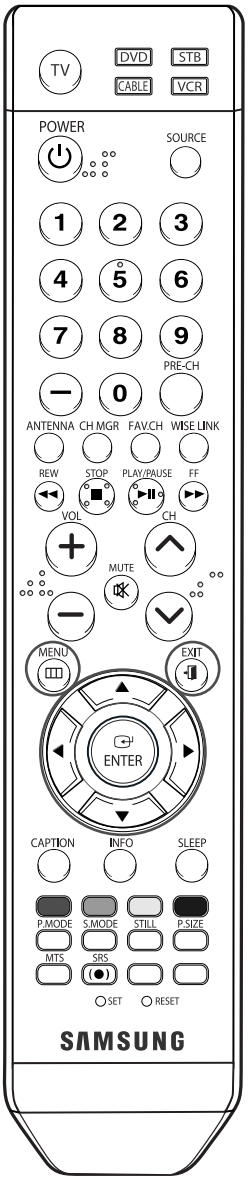


NOTES

- *Allow All : Press to unlock all TV ratings.*
- *Block All : Press to lock all TV ratings.*

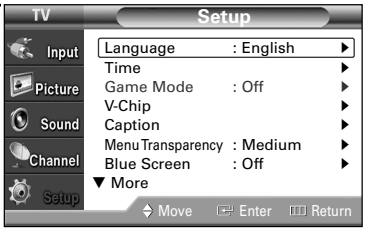
E	Exempt programming includes...news, sports, documentaries and other information programming, talk shows, music videos, and variety programming.
C	Programming intended for children under age 8.
C8+	Programming generally considered acceptable for children 8 years and over to watch on their own.
G	General programming, suitable for all audiences.
PG	Parental Guidance.
14+	Programming contains themes or content which may not be suitable for viewers under the age of 14.
18+	Adult programming.

How to Set up Restrictions Using Canadian French

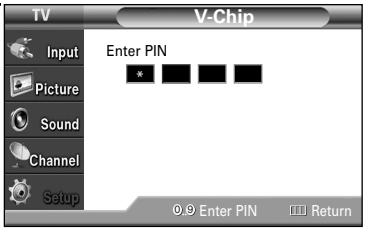


1 Press the MENU button. Press the ▲ or ▼ button to select “Setup”, then press the ENTER button.

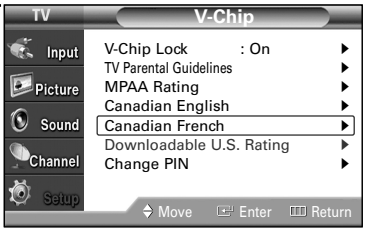
Press the ▲ or ▼ button to select “V-Chip”, then press the ENTER button.



2 Press the number buttons to enter your current 4-digit PIN. (The default PIN for a new TV set is “0000”.) “V-Chip” menu is displayed.



3 Press the ▲ or ▼ button to select “Canadian French”, then press the ENTER button.

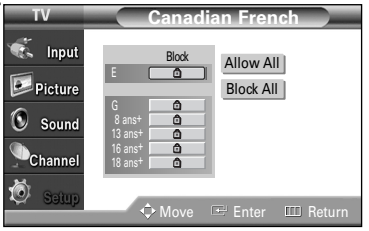


continued...

4 Press the ▲ or ▼ button to select a appropriate restriction.

Press the ENTER button to activate the restriction selected.
"🔒" symbol is indicated.
To unlock a locked channel, press the ENTER button again.

Press the EXIT button to exit.



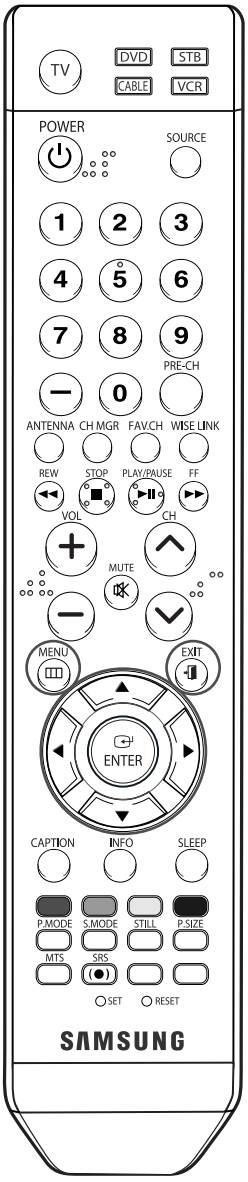
NOTES

- *Allow All : Press to unlock all TV ratings.*
- *Block All : Press to lock all TV ratings.*

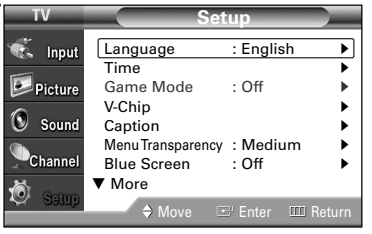
E		Exempt programming includes...news, sports, documentaries and other information programming, talk shows, music videos, and variety programming.
G		General.
8	**ans+**	8+ General-Not recommended for young children.
13	**ans+**	Programming may not be suitable for children under the age of 13.
16	**ans+**	Programming is not suitable for children under the age of 16.
18	**ans+**	Programming restricted to adults.

Using the V-Chip for Digital channels

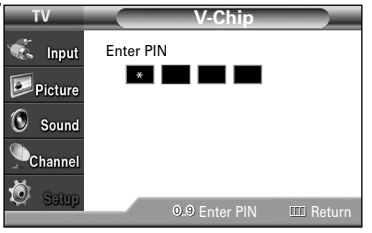
Parental restriction information can be used while watching DTV channels.



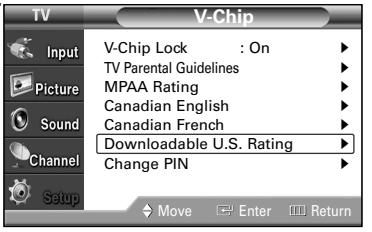
1 Press the MENU button.
Press the ▲ or ▼ button to select “Setup”, then press the ENTER button.
Press the ▲ or ▼ button to select “V-Chip”, then press the ENTER button.



2 Press the number buttons to enter your current 4-digit PIN. (The default PIN for a new TV set is “0000”.)
“V-Chip” menu is displayed.



3 Press the ▲ or ▼ button to select “Downloadable U.S. Rating”, then press the ENTER button.



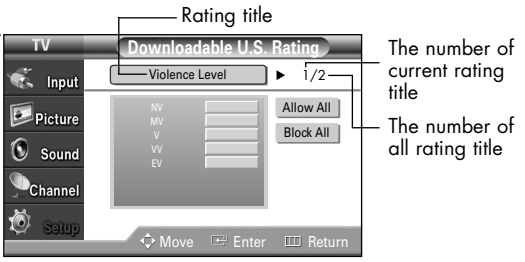
NOTES

- *If information is not downloaded from the broadcasting station, the Downloadable US -rating menu is deactivated.*
- *Parental restriction information is automatically downloaded while watching DTV channels. It may take several seconds.*
- *The downloadable US rating menu is available for use after information is downloaded from the broadcasting station. However, depending on the information from the broadcasting station, it may not be available for use.*

Continued...

4 You can independently lock the TV ratings. The locked TV ratings are indicated by the symbol "🔒".
To unlock a locked channel, press the ENTER button again.

Press the ▲/▼/◄/► buttons and the ENTER button to activate the appropriate restrictions for TV rating system.



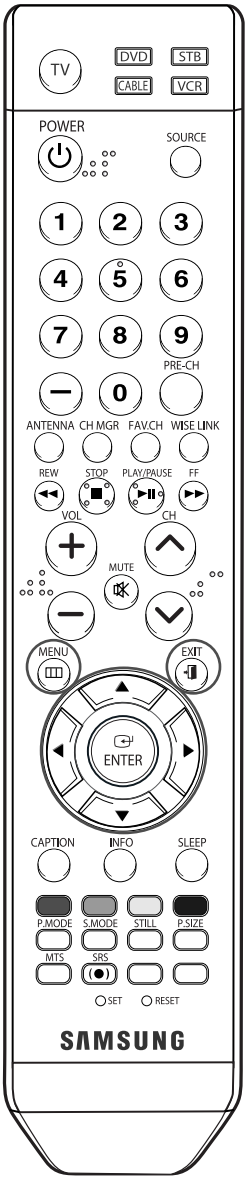
Press the EXIT button to exit.

NOTES

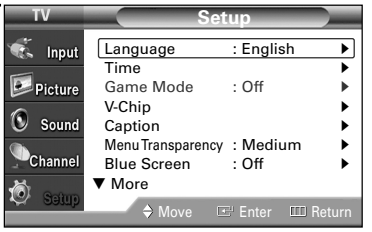
- *Allow all: Press to unlock all TV ratings. / Block all: Press to lock all TV ratings.*
- *Parental restriction levels differ depending on the broadcasting station.*
- *The default menu name and Downloadable US rating changes depending on the downloaded information.*
- *Even if you set the On-screen display to your desired language, the "Downloadable U.S. Rating" menu will appear in English only.*
- *The rating will automatically block certain categories that are more restrictive.*
- *The rating titles (For example : Violence Level.etc) and TV ratings (For example : NV, MV, V..etc) may differ depending on the broadcasting station.*

Viewing Closed Captions (On-Screen Text Messages) Analog

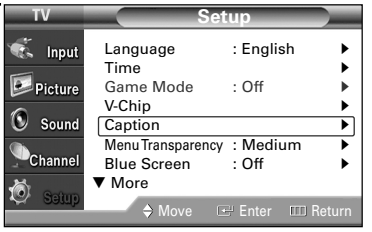
The Analog Caption function operates in either analog TV channel mode or external signal mode. (Depending on the broadcasting signal, the Analog Caption function may operate on digital channels.)



1 Press the MENU button. Press the ▲ or ▼ button to select "Setup", then press the ENTER button.

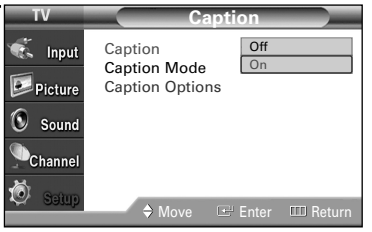


2 Press the ▲ or ▼ button to select "Caption", then press the ENTER button.



3 Press the ENTER button to select "Caption".

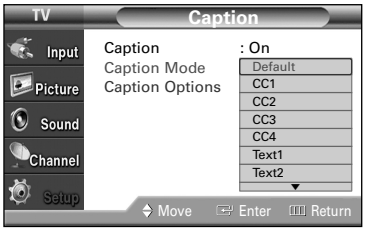
Press the ▲ or ▼ button to select "On", then press the ENTER button.



continued...

4 Press the ▲ or ▼ button to select "Caption Mode", then press the ENTER button.
Press the ▲ or ▼ button to select submenu (CC1~CC4 or Text1~Text4) you want, then press the ENTER button.

Press the EXIT button to exit.

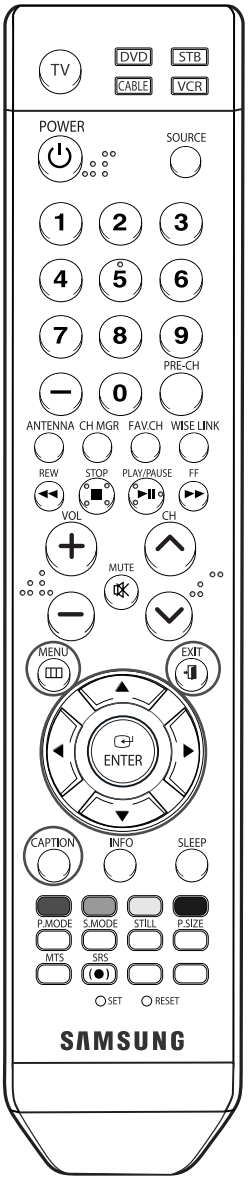


NOTES

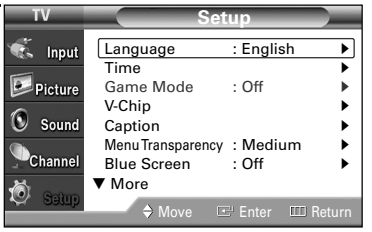
- *The default is "CC1".*
  CC1 : The Primary Synchronous Caption Service. These are captions in the primary language that must be in sync with the sound, preferably matched to a specific frame.
  CC2 : The Special NonSynchronous Use Captions. This channel carries data that is intended to augment information carried in the program.
  CC3 : Secondary Synchronous Caption Service. Alternate program-related caption data, typically second language captions.
  CC4 : Special Non-Synchronous Use Captions. Similar to CC2.
  Text1 : First Text Service. This may be various non-program related data.
  Text2 : Second Text Service. Additional data, usually not program related.
  Text3/Text4 : Third and Fourth Text Services. These data channels are used only if Text1 and Text2 data bandwidths not sufficient.
- *The Caption feature only works in TV, AV and S-Video mode.*
- *The availability of captions depends on the program being broadcast.*

Viewing Closed Captions (On-Screen Text Messages) Digital

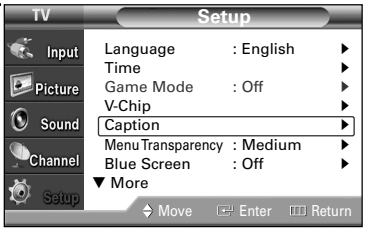
The Digital Captions function operates on digital channels.



1 Press the MENU button. Press the ▲ or ▼ button to select "Setup", then press the ENTER button.

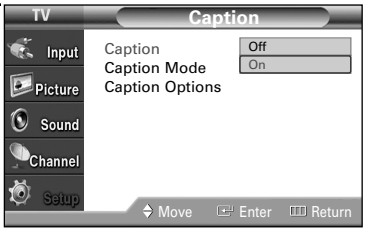


2 Press the ▲ or ▼ button to select "Caption", then press the ENTER button.

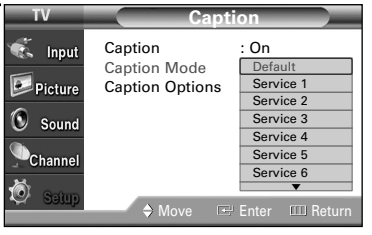


3 Press the ENTER button to select "Caption".

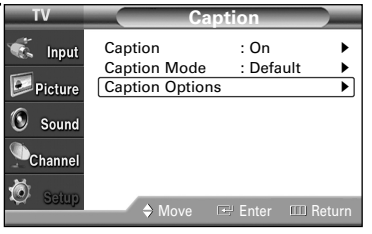
Press the ▲ or ▼ button to select "On", then press the ENTER button.



4 Press the ▲ or ▼ button to select "Caption Mode", then press the ENTER button. Press the ▲ or ▼ button to select submenu (Service 1 ~Service 6, CC1~CC4 or Text1~Text4) you want, then press the ENTER button.



5 Press the ▲ or ▼ button to select "Caption Options", then press the ENTER button.

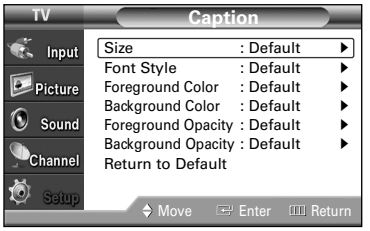


NOTE

- *"Caption Options" are available only when "Service1~ Service6" can be selected in "Caption Mode".*

continued...

6 Press the ▲ or ▼ button to select “Size”, then press the ENTER button.
Press the ▲ or ▼ button to select one you want, then press the ENTER button.
Set other listed options below using the same method as above.
Press the EXIT button to exit.



NOTE

- *The availability of captions depends on the program being broadcast.*

Size
This option consists of “Default”, “Small”, “Standard”, and “Large”. The default is “Standard”.

Font Style
This option consists of “Default”, “Style0 ~ Style 7”.
You can change the font you want. The default is “Style 0”.

Foreground Color
This option consists of “Default”, “White”, “Black”, “Red”, “Green”, “Blue”, “Yellow”, “Magenta”, and “Cyan”.
You can change the color of the letter. The default is “White”.

Background Color
This option consists of “Default”, “White”, “Black”, “Red”, “Green”, “Blue”, “Yellow”, “Magenta”, and “Cyan”. You can change the background color of the caption. The default is “Black”.

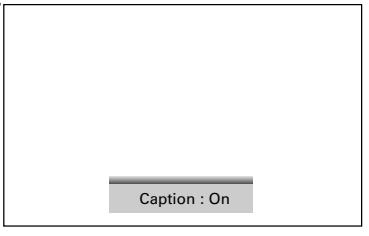
Foreground Opacity
This option consists of “Default”, “Transparent”, “Translucent”, “Solid”, and “Flashing”. You can change the opacity of the letter.

Background Opacity
This option consists of “Default”, “Transparent”, “Translucent”, “Solid”, and “Flashing”. You can change the background opacity of the caption.

Return to Default
This option sets each of “Size”, “Font Style”, “Foreground Color”, “Background Color”, “Foreground Opacity”, and “Background Opacity” Color to its default.

Alternate method

Press the CAPTION button on the remote control repeatedly to select “On” or “Off”.



PC Display

Using Your TV as a Computer (PC) Display

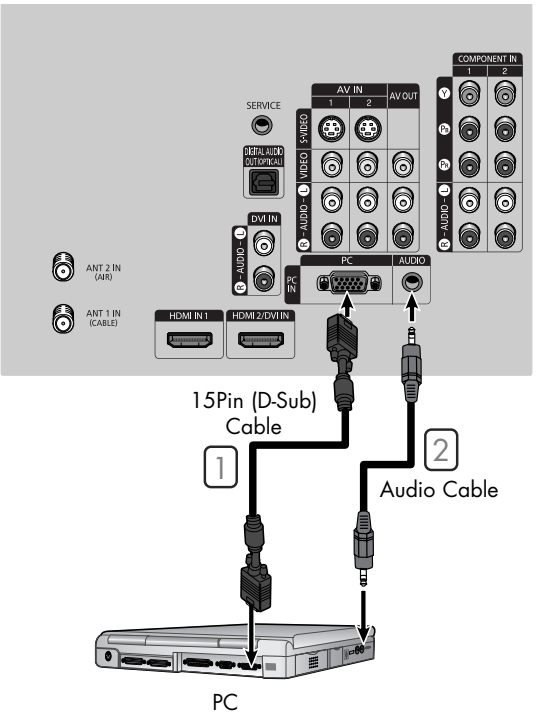
How to Connect Your PC to the TV

This figure shows the Standard Connector-jack panel. The actual configuration on your TV may be different, depending on the model.

Connecting a PC (15p D-SUB) to the TV

1. Connect a PC cable between the PC Output jack on the PC and the RGB input jack (PC IN) on the TV.
2. Connect a Audio cable between the Audio jack on the PC and the Audio input jack (PC AUDIO IN) on the TV.

TV Rear Panel



NOTE

- *You cannot connect this TV to a PC via HDMI/DVI.*

Setting up Your PC Software (Based on Windows XP)

The Windows display-settings for a typical computer are shown below. But the actual screens on your PC will probably be different, depending upon your particular version of Windows and your particular video card. But even if your actual screens look different, the same, basic set-up information will apply in almost all cases. (If not, contact your computer manufacturer or Samsung Dealer.)

1. Right click the mouse on the Windows Desktop, then click on Properties. The Display Dialog-Box will be displayed.

2 Click on Settings, then set the Display Mode with reference to the Display Modes Table. You do not need to change the Colors settings.

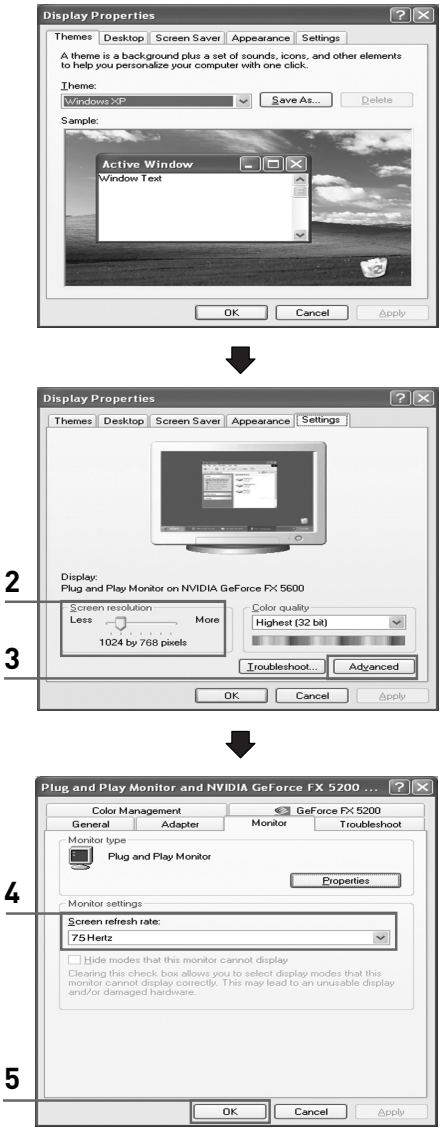
3 Click on Advanced. A new settings dialog box will be displayed.

4 Click on the Monitor tab, then set the Screen Refresh Rate with reference to the Display Modes Table. Set the Vertical Frequency and Horizontal Frequency individually if you can do so, instead of setting the Screen Refresh Rate.

5 Press the OK button, close the window, then press the OK button on the Display Registration Information window. Automatic re-booting may commence at this moment.

6 Shutdown the PC, and connect it to your TV.

* The actual screens on your PC may look different, depending on your particular version of Windows and the type of your PC.
* When you use your TV as a PC monitor, it supports Colors up to 32 bits.
* In this case, the display on the TV may look different depending on your particular version of Windows or the PC manufacturer.
* When connecting a PC, you must set it to the display settings that are supported by the TV. Otherwise, the message Out of input range will be displayed.



continued...

PC Display

Display Modes

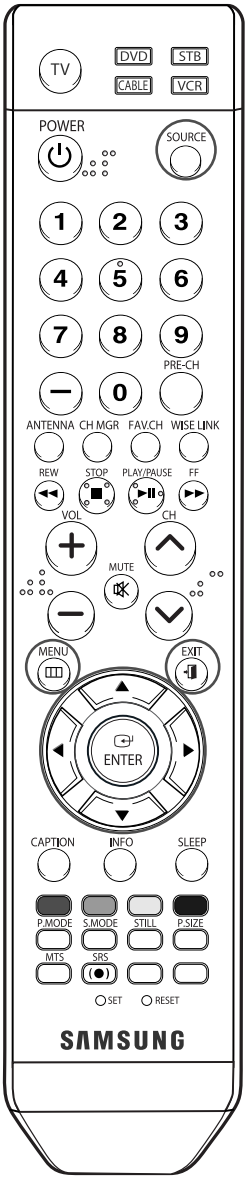
Mode	Resolution	Horizontal Frequency [KHz]	Vertical Frequency [Hz]	Pixel Clock [MHz]	Sync Polarity (H/V)
VGA	640 x 350	31.47	70.00	25.175	+/–
	720 x 400	31.47	70.00	28.322	–/–
	640 x 480	31.47	60.00	25.175	–/+
		35.00	66.70	30.24	–/–
		37.86	72.80	31.50	–/–
		37.50	75.00	31.50	–/–
SVGA	800 x 600	35.16	56.30	36.00	–+/–
		37.88	60.30	40.00	+/+–
		48.08	72.20	50.00	+/+
		46.87	75.00	49.50	+/+
XGA	1024 x 768	48.36	60.00	65.00	–/–
		56.40	70.10	75.00	–/–
		60.02	75.00	78.75	+/–
VESA	640 x 480	35.000	70.000	28.6	–/+
		43.269	85.008	36.0	–/–
	720 x 400	37.927	85.039	35.5	+/–
	800 x 600	43.750	70.000	45.5	–/+
	1024 x 768	57.672	72.000	78.4	–/+
		68.677	84.997	94.5	+/+
DTV	1920 x 1080i	33.75	60	74.25	X
	1280 x 720p	45.00	60	74.25	X
	720 x 483p	31.47	60	27	X

NOTES

- *The PC text quality is optimum in XGA mode (1024 x 768@60Hz).*
- *Both screen position and size will vary, depending on the type of PC monitor and its resolution. The table above shows all of the display modes that are supported:*
  - ** The interlace mode is not supported.*
  - ** The TV will operate abnormally if a non-standard video format is selected.*
- *When this TV is used as a PC display, 32-bit color is supported (over 16 million colors).*
- *Your PC display screen might appear different, depending on the manufacturer (and depending on your particular version of Windows). Check your PC instruction book for information about connecting your PC to a TV display-monitor.*
- *Same modes as PC are supported for the signal input to the DVI jack. Only a separate sync signal is supported.*

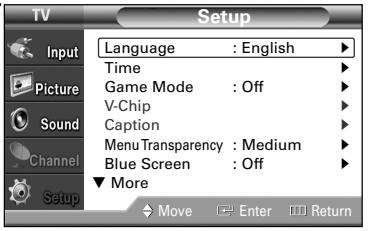
Adjusting the Picture Quality

The purpose of picture quality adjustment is to remove or reduce picture noise. If the noise is not removed by fine tuning alone, then do the frequency adjustments to the utmost and fine tune again. After the noise has been reduced, re-adjust the picture so that it is aligned to the center of screen.

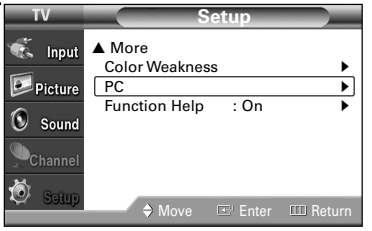


1 Press the SOURCE button to select “PC”.

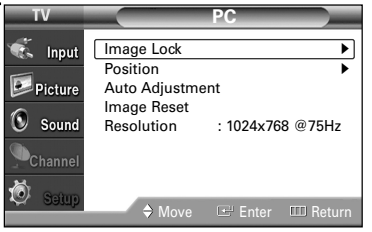
2 Press the MENU button. Press the ▲ or ▼ button to select “Setup”, then press the ENTER button.



3 Press the ▲ or ▼ button to select “PC”, then press the ENTER button.

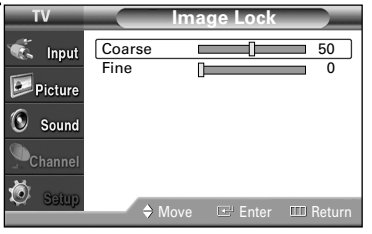


4 Press the ENTER button to select “Image Lock”, then press the ENTER button.



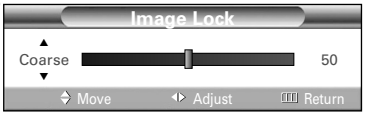
5 Press the ▲ or ▼ button to select “Coarse” or “Fine”, then press the ENTER button.

- You can also select these options (Coarse, or Fine) by pressing the ▲ or ▼ button.



6 Press the ◄ or ► button to remove the picture noise.

Press the EXIT button to exit.



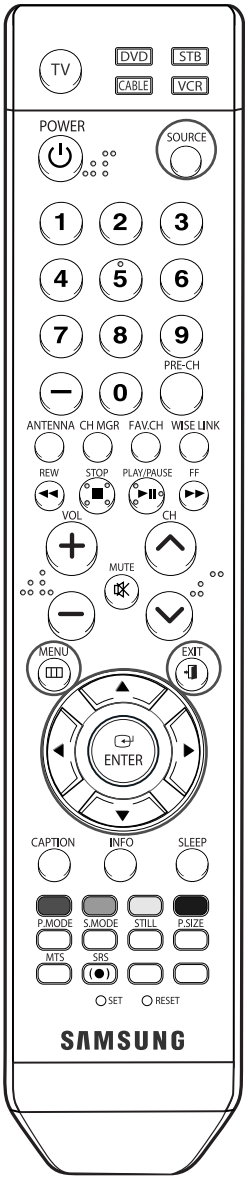
NOTE

- *This feature may change the width of the image. If necessary, adjust the position to center.*

PC Display

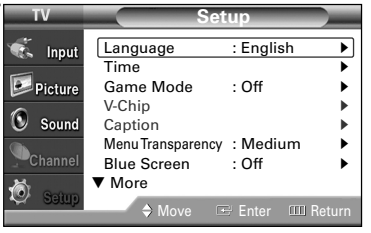
Changing the Picture Position

After connecting the TV to your PC, adjust the position of picture if it is not well-aligned.

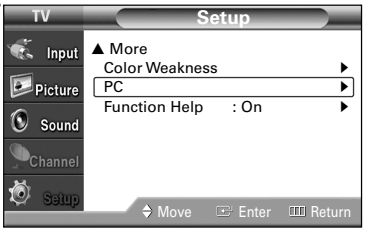


1 Press the SOURCE button to select “PC”.

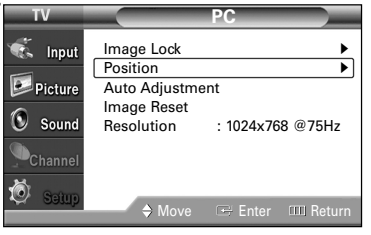
2 Press the MENU button. Press the ▲ or ▼ button to select “Setup”, then press the ENTER button.



3 Press the ▲ or ▼ button to select “PC”, then press the ENTER button.

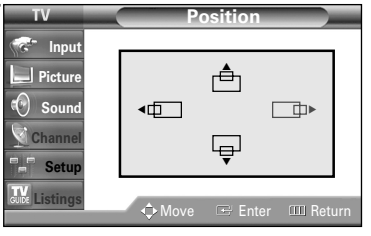


4 Press the ▲ or ▼ button to select “Position”, then press the ENTER button.



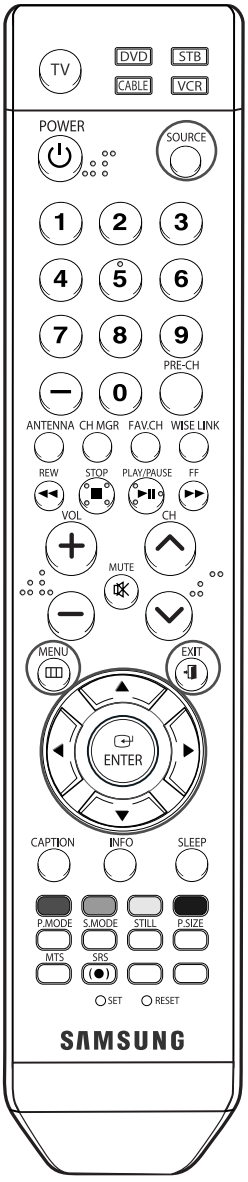
5 Adjust the position of picture by pressing the ▲/▼/◄/► button.

Press the EXIT button to exit.



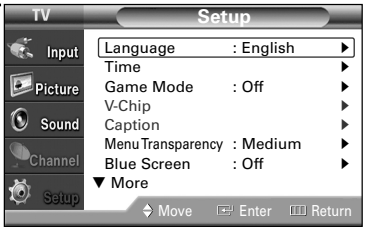
Adjusting the Picture Quality and Position Automatically

This feature allows the TV to self-adjust to the incoming video signal. The values of fine, coarse and position are adjusted automatically.

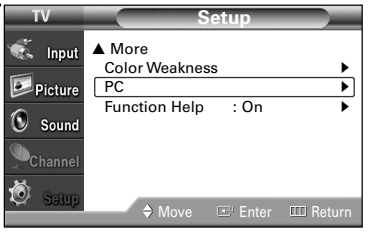


1 Press the SOURCE button to select “PC”.

2 Press the MENU button. Press the ▲ or ▼ button to select “Setup”, then press the ENTER button.

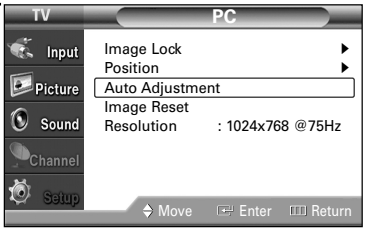


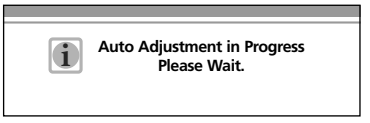
3 Press the ▲ or ▼ button to select “PC”, then press the ENTER button.



4 Press the ▲ or ▼ button to select “Auto Adjustment”, then press the ENTER button. The picture quality and position are automatically adjusted, and the picture returns to original view a few seconds later.

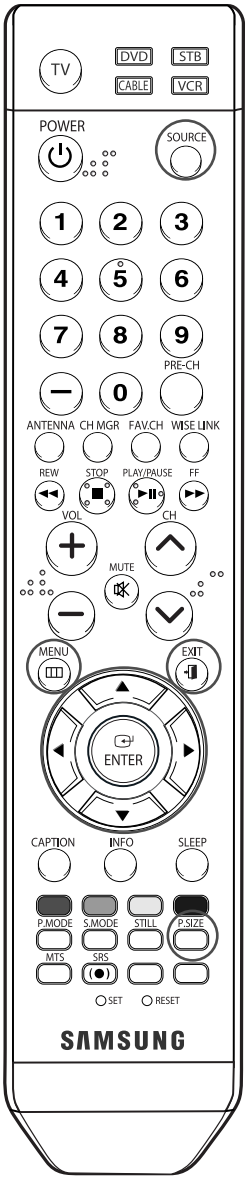
Press the EXIT button to exit.





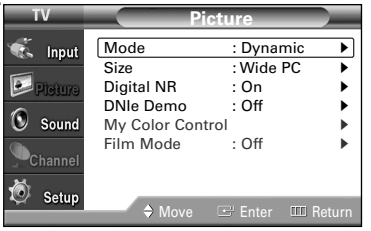
Changing the Picture Size (PC Mode)

You can select the picture size which best corresponds to your viewing requirements.



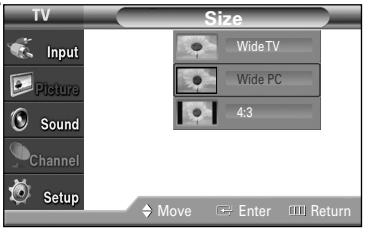
1 Press the SOURCE button to select “PC”.

2 Press the MENU button.
Press the ▲ or ▼ button to select “Picture”, then press the ENTER button.
Press the ▲ or ▼ button to select “Size”, then press the ENTER button.



3 Press the ▲ or ▼ button to select the screen format you want, then press the ENTER button.

Press the EXIT button to exit.

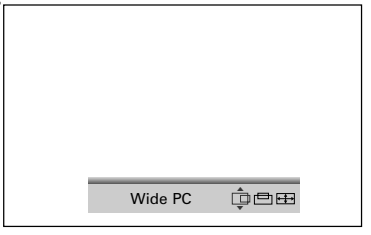


NOTES

- “Wide TV”: Scales the picture to the size of the TV screen, regardless of the aspect ratio of the input source.
- “Wide PC”: Scales the picture to 92% of the TV screen, regardless of the aspect ratio of the input source. The picture position (,) and size ( ) adjustment are available by pressing the ▲/▼/◄/► button.
- “4:3”: Displays the picture as it is without changing the aspect ratio of input source.

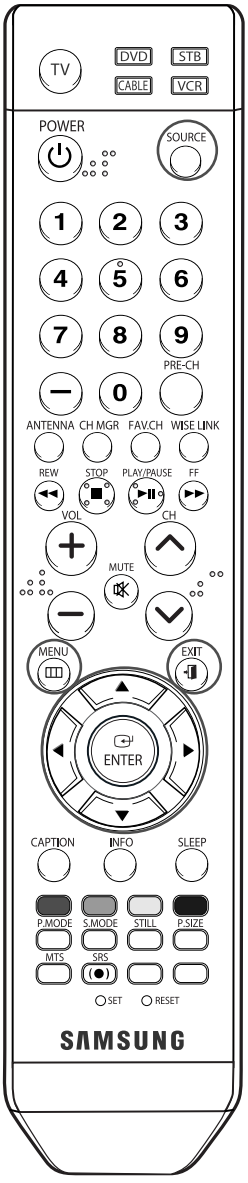
Alternate method

Press the P.SIZE button on the remote control repeatedly to change the picture Size.



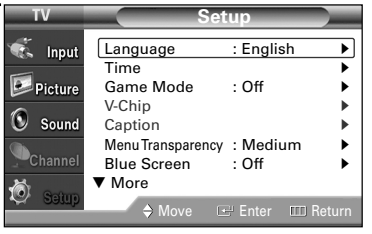
Viewing the Current Resolution

You can get the resolution information of your PC.

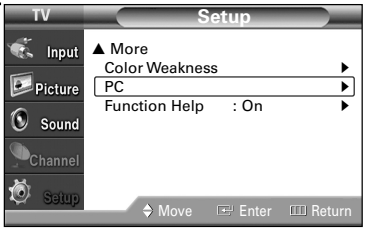


1 Press the SOURCE button to select “PC”.

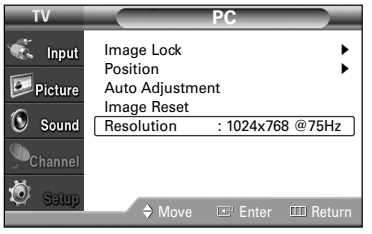
2 Press the MENU button. Press the ▲ or ▼ button to select “Setup”, then press the ENTER button.



3 Press the ▲ or ▼ button to select “PC”, then press the ENTER button.



The resolution information is displayed on the screen.

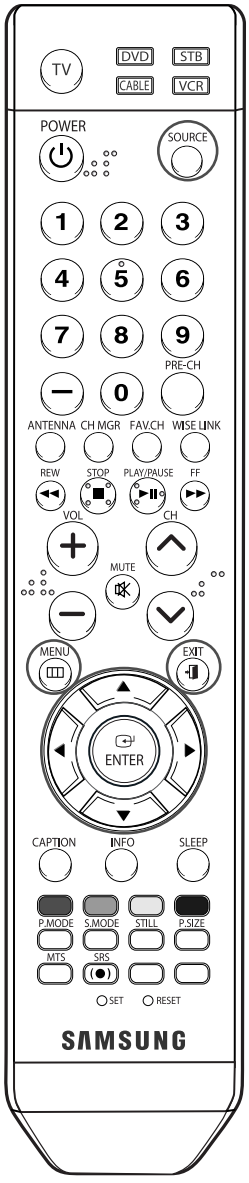


NOTE

- *To change the resolution, see pages 105~106.*

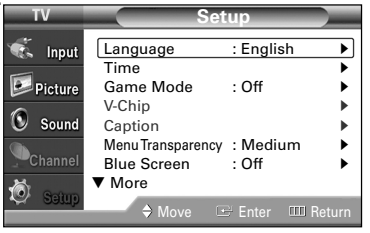
Initializing the Picture Settings

You can replace all picture settings with the factory default values.

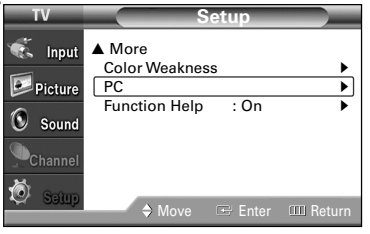


1 Press the SOURCE button to select “PC”.

2 Press the MENU button. Press the ▲ or ▼ button to select “Setup”, then press the ENTER button.

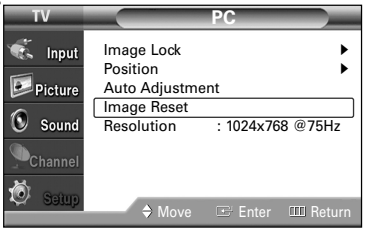


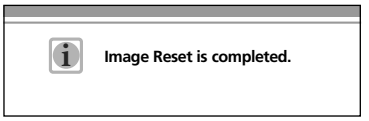
3 Press the ▲ or ▼ button to select “PC”, then press the ENTER button.



4 Press the ▲ or ▼ button to select “Image Reset”, then press the ENTER button. The picture settings are replaced with the factory default values.

Press the EXIT button to exit.





WISELINK

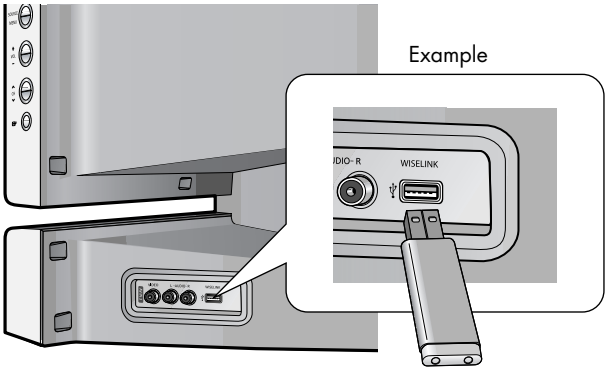
Using the WISELINK Function

This function enables you to view and listen to photo (JPEG) and audio files (MP3)saved on a USB Mass Storage Class (MSC) device.

Press the power button on the remote control or front panel.

Connect a USB device containing JPEG and/or MP3 files to the WISELINK jack (USB jack) on the side of the TV first.

TV Side Panel



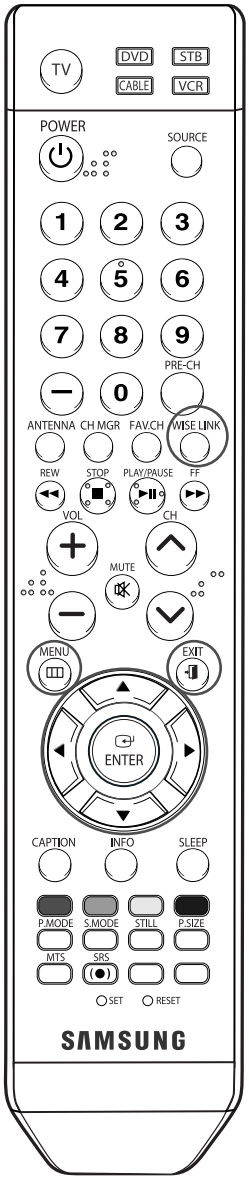
NOTES

- *If you enter the WISELINK mode with no USB device connected. "There is no device connected" message will appear. In this case, insert the USB device, exit the screen by pressing the WISE LINK button on the remote control and enter the WISELINK screen again.*
- *Photo and audio files must be named in English, French, or Spanish. If not, the files can not be played. Change the file names to English, French, or Spanish if necessary.*
- *Folder or file names can not exceed 128 characters. If exceeded, they won't function.*
- *The file system only supports the FAT16/32.*
- ***Certain types of USB Digital camera and audio devices may not be compatible with this TV.***
- *Wiselink only supports the USB Mass Storage Class device (MSC). MSC is a Mass Storage Class Bulk-Only Transport device. Examples of MSC are Thumb drives and Flash Card Readers.*
- *Before connecting your device to the TV, please back up your files to prevent them from damage or loss of data. SAMSUNG is not responsible to any data file damage or data loss.*

Using the Remote Control Button in WISELINK Menu

Button	Operations
	Move the cursor and select an item
ENTER	Select the currently selected item.
PLAY/PAUSE	Play or pause the Slide Show or MP3 file.
EXIT	Stop the current function and return to the previous high-level menu.
INFO	Run various functions from the Photo and Music menus.
STOP	Stop the current slide show or MP3 file.
REW / FF	Page Up or Down (file list item)

Using the WISELINK Menu

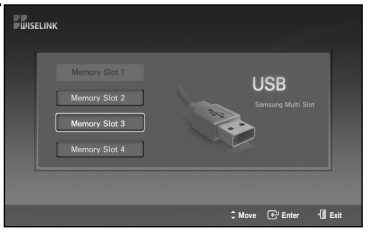


1 Press the MENU button. Press the ENTER button to select "Input".

2 Press the ▲ or ▼ button to select "WISELINK", then press the ENTER button.

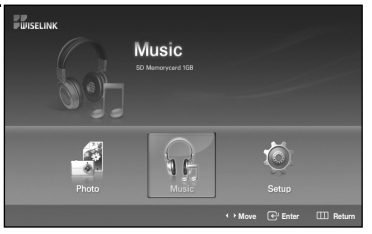
3 Press the ▲ or ▼ button to select the corresponding MSC Memory Device, then press the ENTER button.

A menu for selecting the format of the files saved on the selected MSC Memory Device will be displayed.



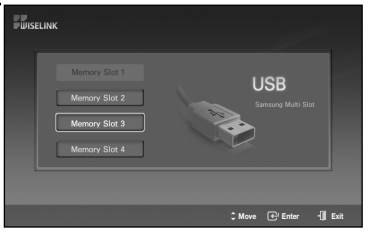
4 Press the ◄ or ► button to move to an icon, then press the ENTER button.

To exit WISELINK, press the WISE LINK button on the remote control.



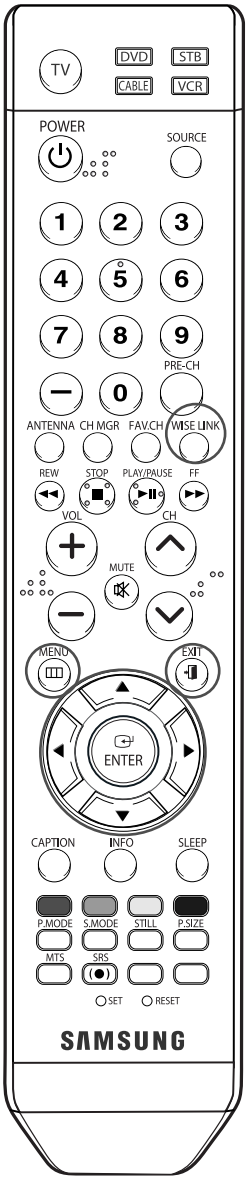
Alternate method

Press the WISE LINK button on the remote control to display a WISELINK menu.



Using the PHOTO (JPEG) List

This menu shows JPEG files and folders saved on an MSC memory device.



1 Complete Steps 1 to 4 of Using the WISELINK Menu. (Refer to page 115)

2 Press the ◄ or ► button to move to "Photo", then press the ENTER button.
The saved file information is displayed as a folder or file.

3 Press the ▲, ▼, ◄ and ► buttons to select a file, then press the ENTER button.

- Pressing the button over a photo icon shows the currently selected photo in full screen.
- Pressing the button over a folder icon shows the JPEG files included in the folder.

: folder icon

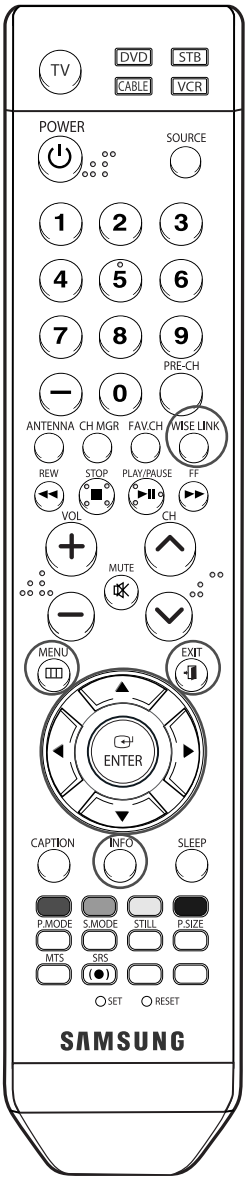
: photo icon

: Move to the previous folder stage icon

To exit WISELINK, press the WISE LINK button on the remote control.

NOTES

- *Moving to a photo may take a few seconds to load the file. At this point, the Loading icon will appear at the top left of the screen.*
- *This menu only shows files whose file extension is jpg. Files of other formats such as bmp or tiff will not be displayed.*
- *The files are displayed on a page. 15 thumbnail photos are displayed per page.*
- *The thumbnails are numbered from left to right and from top to bottom, from 1 to 15.*
- *Folders are displayed first and they are followed by all JPEG files in the current folder. The folders and JPEG files are sorted in alphabetical order.*
- *If the photo is displayed in full screen, you can zoom in and out or rotate the photo on the screen. (Refer to pages 120~122)*
- *It takes time to show JPEG files as Thumbnail images.*

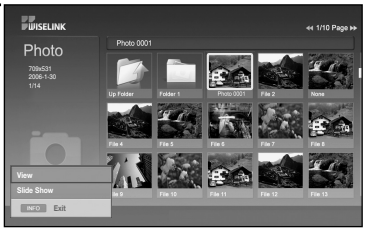


Selecting a Photo and Slide Show

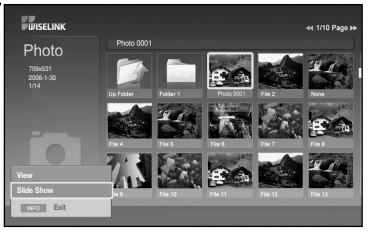
1 Complete Steps 1 to 4 of Using the WISELINK Menu. (Refer to page 115)

2 Press the ◄ or ► button to move to "Photo", then press the ENTER button.
The saved file information is displayed as a folder or file.

3 Press the INFO button to display "View" or "Slide Show".



4 Press the ▲ or ▼ button to select "Slide Show", then press the ENTER button.



NOTES

- *Slideshow all files in the selected folder at a predetermined interval.*
- *During the slide show, files are displayed in order from the currently shown file.*
  Press the INFO button to run Slide Show.
- ***MP3 files can be automatically played during the Slide Show if the Default Background Music is set to On. To enable this function, MP3 files and other photo files must be located in the same folder on the MSC Memory Device.***

continued...

5 Press the INFO button during "Slide Show" to set the option(Slide Show Speed, Background Music On/Off, Background Music Setting, List).

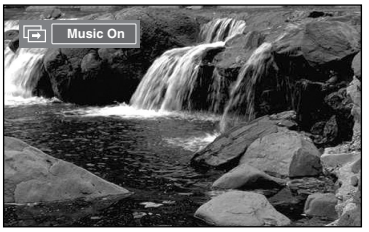
Press the ▲ or ▼ button to select the option, then press the ENTER button.

6 To change the sub option, press the INFO button again to open the options window and select option you want to change, then press the ENTER button. Whenever you do this, the sub option on the screen is changed.

Using the Menu during a Slide Show

Slide Show Speed:
Select to control the slide show speed.
You can select Slow, Normal, or Fast.

Background Music On/Off:
Select to choose whether you want to play MP3 file during a slide show.
You can select Music On or Music Off.



Background Music Setting:
The saved file information is displayed as folder or MP3 file.

- Select the Background Music Settings and press the ENTER button. Select a folder for the background music by using the ▲ or ▼ buttons and press the ENTER button. The selected folder will be highlighted .
- Press the MENU button again to return to the SlideShow screen. The selected background music is played.

NOTE

- *If you turn Off the Background Music, even if the Background Music Settings have been set up, the background music will not be played.*

continued...

List:
The saved file information is displayed as folder or JPEG file.

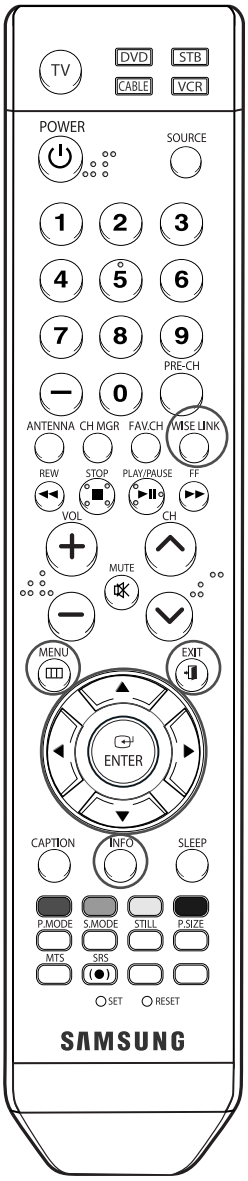
To exit WISELINK mode, press the WISE LINK button on the remote control.

Slideshow function information icon (Displayed at the top left of the screen).

Icon	Current OSD	Function
Play	(Photo) SlideShow	Photo SlideShow is in progress.
Pause	Photo Pause	When the SlideShow and music is paused by the PLAY/PAUSE button on the remote control during a SlideShow. To resume the SlideShow, press the PLAY/PAUSE button on the remote control again.
+ / −	Volume Up Volume Down	When pressing the VOL +, – buttons on the remote control to adjust the music volume.
→	Move to Next Photo	When pressing the (right) direction button on the remote control to move to the next photo.
←	Move to Previous Photo	When pressing the (left) direction button on the remote control to move to the previous photo.

NOTE

- *When selecting a photo file, the photo file information is displayed on the left in the TV screen, such as the resolution, the date modified and the order of the file in the current directory (e.g. 10th out of 15).*



Rotating

1 Complete Steps 1 to 4 of Using the WISELINK Menu. (Refer to page 115)

2 Press the ◄ or ► button to move to “Photo”, then press the ENTER button.
The saved file information is displayed as a folder or file.

3 Press the ▲, ▼, ◄ and ► buttons to select a file, then press the ENTER button.
Pressing the button over a photo thumbnail displays the photo in full screen.

4 Press the INFO button to display the option(Slide Show, Rotate, Zoom).

Press the ▲ or ▼ button to select “Rotate”, then press the ENTER button.

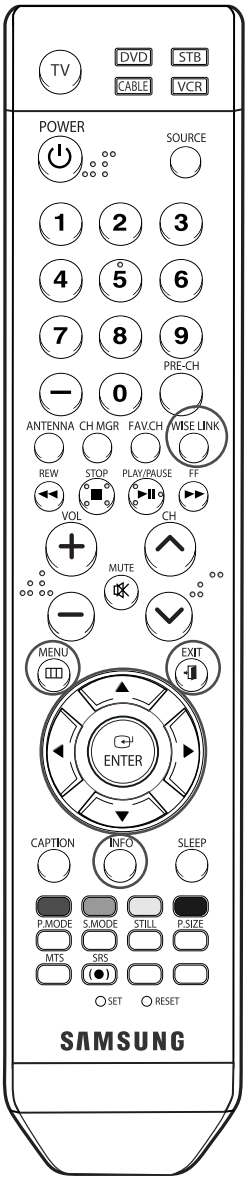
- The INFO button, the Rotate option and Enter must be pressed each time you want to rotate the picture. For example, from 90 to 180 degrees.

To rotate a photo, press the INFO button to open the options window, select the “Rotate” option and press the ENTER button. Whenever you do this, the photo on the screen is rotated. (90°, 180°, 270°, 0°)

To exit WISELINK mode, press the WISE LINK button on the remote control.

NOTES

- *The rotated file is not saved.*
- *Zoom/Slide Show option is disabled when the Rotate option is selected.*



Zooming-in

1 Complete Steps 1 to 4 of Using the WISELINK Menu. (Refer to page 115)

2 Press the ◄ or ► button to move to “Photo”, then press the ENTER button.
The saved file information is displayed as a folder or file.

3 Press the ▲, ▼, ◄ and ► buttons to select a file, then press the ENTER button.
Pressing the button over a photo thumbnail displays the photo in full screen.

4 Press the INFO button to display the option(Slide Show, Rotate, Zoom).

Press the ▲ or ▼ button to select “Zoom”, then press the ENTER button.
The enlarged photo image appears on the screen.

To enlarge a displayed photo, press the INFO button to open the Options window, select the “Zoom” option and press the ENTER button.
Whenever you do this, the following zoom options are applied in sequence.

- The INFO button, the Rotate option and Enter must be pressed each time you want to Zoom the picture. For example, from x 2 to x 4.

continued...

- Zoom(x 2): Zoom-in to the photo x2.
- Zoom(x 4): Zoom-in to the photo x4.
- Zoom(x 1): Restore the photo to its original size.

To move to pan up/down/left/right, press the ▲, ▼, ◄ and ► buttons.

To exit WISELINK mode, press the WISE LINK button on the remote control.

The Rotating function information icon (Displayed at the top left of the screen).

Icon	Current OSD	Function
	Rotating (90°)	To rotate a photo by 90 degrees
	Rotating (180°)	To rotate a photo by 180 degrees
	Rotating (270°)	To rotate a photo by 270 degrees
	Rotating (0°)	To rotate a photo by original

Zoom function information icon (Displayed at the top left of the screen).

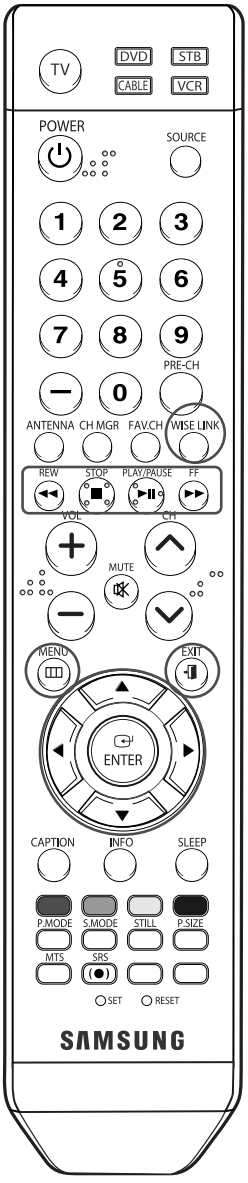
Icon	Current OSD	Function
	Zoom (x 2)	Zoom-in to a photo x2.
	Zoom (x 4)	Zoom-in to a photo x4.
	Zoom (x 1)	Restore a photo to its original size.
	Pan Down	Pan down to view the lower part of a zoomed-in photo.
	Pan Up	Pan up to view the upper part of a zoomed-in photo.
	Pan Right	Pan right to view the right side of a zoomed-in photo.
	Pan Left	Pan left to view the left side of a zoomed-in photo.
	Pan Down (END)	Pan to the bottom of a zoomed-in photo.
	Pan Up (END)	Pan to the top of a zoomed-in photo.
	Pan Right (END)	Pan to the right-most part of a zoomed-in photo.
	Pan Left (END)	Pan to the left-most part of a zoomed-in photo.

NOTE

- *Rotate/Slide show option is disabled when the Zoom option is selected.*

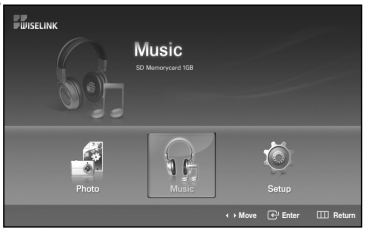
Using the MP3 List

This menu shows MP3 files from among the files saved on an MSC memory device.



1 Complete Steps 1 to 4 of Using the WISELINK Menu. (Refer to page 115)

2 Press the ◄ or ► button to move to “Music”, then press the ENTER button.
The saved file information is displayed as a folder or file.

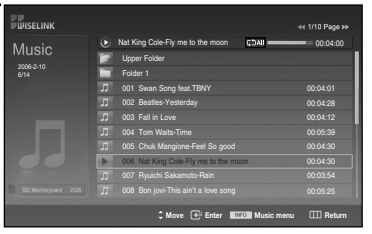


3 Press the ▲ or ▼ button to select a file, then press the ENTER button.

To select all files or a file, press the INFO button to display the Music menus. Press the ENTER button to select “Play All Files” or “Play”.

- Pressing the button over a musical note icon immediately plays the music file.
- Pressing the button over a folder icon shows the music files included in the folder.

To select a file on the next page, press the REW or FF button to move to the next page.

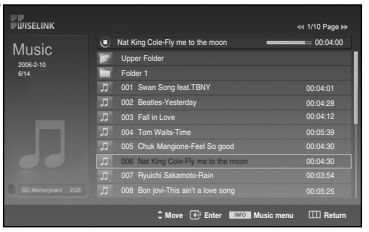


: folder icon

: musical note icon

continued...

4 Press the PLAY/PAUSE button while playing an MP3 file to pause the file. Press the STOP button to exit Play mode.



To exit WISELINK mode, press the WISE LINK button on the remote control.

NOTES

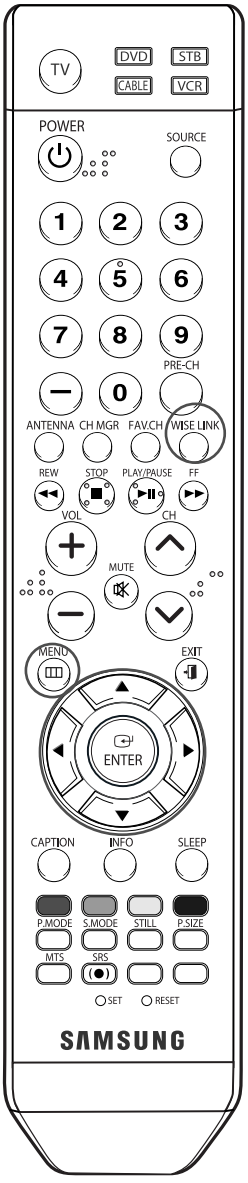
- *This menu only shows files with the mp3 file extension. Files with other file extensions are not displayed, even if they are saved on the same memory card.*
- *The selected file is displayed on the top with its playing time.*
- *To adjust the music volume, press the VOL+ or VOL- button on the remote control. To mute the sound, press the MUTE button on the remote control.*
- *FF/Rew Key does not function during the play.*

Music function information icon (Displayed at the top left of the screen).

Icon	Current OSD	Function
	(Music) All	When all music files are being played.
	(Music) One	When a music file is being played.
	(Music) Play/Pause	When pressing the PLAY/PAUSE button on the remote control while music is playing. The music stops and the 'Play' text appears at the top of the screen.
	(Music) Stop	When pressing the STOP button on the remote control when music is stopped. The music resumes and the 'Stop' text appears at the top of the screen.

Using the Setup Menu

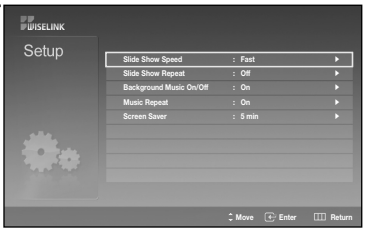
Setup displays the user settings of the WISELINK menu.



1 Complete Steps 1 to 4 of Using the WISELINK Menu. (Refer to page 115)

2 Press the ◄ or ► button to move to “Setup”, then press the ENTER button.

3 Press the ▲ or ▼ button to select an item you want, then press the ENTER button.



4 Press the ▲ or ▼ button to select the option, then press the ENTER button.

continued...

Slide Show Speed:
Select to control the slide show speed.
You can select Slow, Normal or Fast.

Slide Show Repeat:
- On: Repeats the slide show from the beginning when all the files in the folder have been displayed.
- Off: Exit a slide show.

To return to the Photo menu when all the files in the folder have been displayed.

Background Music:
Select to determine whether to play an MP3 file during a slide show.
You can select Music On or Music Off.

Music Repeat:
Select to determine whether to repeat playing the music when all MP3 files in the current folder have been played.
You can select On or Off.
- On: (Music) All, (Music) One
- Off: (Music) All, (Music) One

Screen Saver:
Select to set the waiting time before the screen saver is run when no button is pressed. You can select from Off(Do Not Use), 5min(minute) or 10min(minute).

Appendix

Appendix

Replacing the Lamp

- **Why do I need to replace the lamp?**
  The lamp used in a DLP TV has a limited lifespan. For the best screen quality it needs to be replaced periodically. After replacing the lamp, the screen quality will be bright and clear as new.

- **When do I need to replace it?**
  It should be replaced when the screen becomes darker, less clear or when all three LEDs on the front (TIMER, LAMP, & STAND BY/TEMP) are flashing.

- **Check before lamp replacement**
  1. The lamp must be the same code number and type.
  2. The lamp type is indicated on the right side of the TV. It is also indicated on the lamp case.
  3. After checking the code number for the lamp, give the code number to the store where you purchased the TV or to a Samsung Service center.

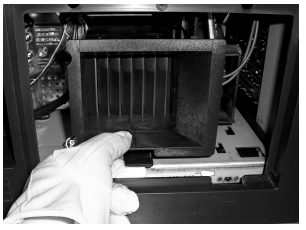
- **Caution**
  1. Replace with the correct code numbered lamp to avoid damage to the TV.
  2. Turn the power off and wait for 30 minutes before replacing the lamp as it will be hot.
  3. Do not touch the glass part of the lamp with your bare hands or insert any foreign object inside the cover as it may cause poor screen quality, electric shock or fire.
  4. Do not place the old lamp near flammable objects or within the reach of children.
  5. Be sure to connect this TV directly to an AC wall outlet. If the TV's AC plug is connected to a cable box or other source, it will not allow for proper cool down time.

• For replacement, you will need a 5.91-Inch screwdriver and a pair of gloves.

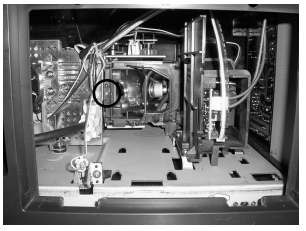
1 Unplug TV, then use a screwdriver to remove the screws.

2 Remove the Lamp cover.

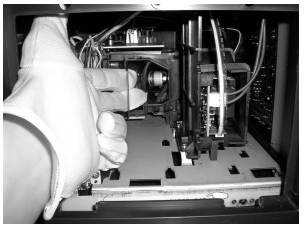
3 Remove the Lamp cover duct holding the locker and pulling it out.

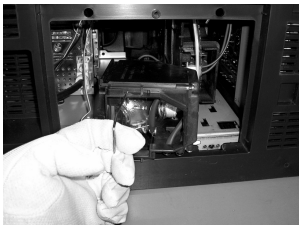


4 Remove the screw securing the Lamp by using a screwdriver.



5 Separate the Lamp from the engine by holding the handle and pulling it out.





NOTES

- *Be sure the replacement Lamp is the same type.*
- *After replacing the lamp, align the lamp cover with the groove and secure the screws.*
- *The TV will not turn on if the lamp cover is not correctly closed (as this will activate the protective circuit).*

Troubleshooting

If the TV seems to have a problem, first try this list of possible problems and solutions. If none of these troubleshooting tips apply, then call your nearest Samsung authorized service center.

Problem	Possible Solution
Poor picture quality.	Try another channel. Adjust the antenna. Check all wire connections.
Poor sound quality.	Try another channel. Adjust the antenna. Make sure the MUTE button is off.
No picture or sound.	Try another channel. Press the SOURCE button. Make sure the TV is plugged in. Check the antenna connections. Check that the Mute feature is off.
No color, wrong colors or tints.	Make sure the program is broadcasted in color. Adjust the picture settings.
Picture rolls vertically.	Adjust the antenna. Check all wire connections. If you are using a VCR, check the tracking.
The TV operates erratically.	Unplug the TV for 30 seconds, then try operating it again.
Your remote control does not operate your TV.	Press the "TV" button to put your remote control into "TV" mode. Make sure the remote has batteries.
The TV won't switch on.	Make sure the wall outlet is working. Make sure the TV is plugged in. Make sure the remote has batteries.
Digital broadcasting screen problem.	Please check the digital signal strength and input antenna.
The visual qualities of digital channels vary.	The visual qualities of digital channels may vary depending on the original production method (analog or digital). ➔ If the original production method is digital: High visual quality program. ➔ If the original production method is analog: The digital program displayed on the screen is originally an analog program which has been converted. The visual quality is of an SD grade.
Although the TV caption shows HD, the visual quality is not satisfactory.	The HD caption that appears when switching channels or when pressing the Information button on the remote control means the selected channel is simply a digital channel. If the broadcasting station converts an analog signal into digital and transmits the signal, the visual quality may not be perfect. (Applied to Set Top Box built-in model only.)

- The display panel used for the DLP TV is composed of many tiny pixels. These pixels may occasionally appear on the screen.

Cleaning and Maintaining Your TV

Please follow these guidelines to get the maximum performance from your TV.

Placement

- Do not put the TV near extremely hot, cold, humid or dusty places.
- Do not place the TV near appliances with electric motors that create magnetic fields, such as vacuum cleaners.
- Keep the ventilation openings clear; do not place the TV on a soft surface, such as cloth or paper.
- Place the TV in a vertical position only.

Liquids

- Do not handle liquids near or on the TV. Liquids that spill into it can cause serious damage.

Cabinet

- Never open the cabinet or touch the parts inside.
- Wipe your TV with a clean, dry cloth. Never use water, cleaning fluids, wax, or chemicals.
- Do not put heavy objects on top of the cabinet.
- This DLP TV projects the image onto a large screen by applying an optical system. If you place the TV set face down, it might cause a problem because dirt, or some other contaminant may become attached to the inside of the TV set.

Temperature

- If your TV is suddenly moved from a cold to a warm place, unplug the power cord, and allow at least two hours for moisture that may have formed inside the unit to dry completely.

Using Your TV in Another Country

If you plan to take your TV with you to a foreign country, please be aware of the different television systems that are in use around the world. A TV designed for one system may not work properly with another system due to differences in the TV channel frequencies.

Specifications

Model	HL-S4266W	HL-S4666W	HL-S5066W	HL-S5666W	HL-S6166W
Voltage	AC 110-120V±10%	AC 110-120V±10%	AC 110-120V±10%	AC 110-120V±10%	AC 110-120V±10%
Frequency of Operation	60Hz	60Hz	60Hz	60Hz	60Hz
Power Consumption	200 watts	200 watts	200 watts	200 watts	200 watts
Dimensions (W x D x H)	39.33 x 13.03 x 29.74 inches 999 x 331 x 755.5 mm	42.83 x 13.44 x 32.05 inches 1088 x 341.5 x 814 mm	46.54 x 14.00 x 34.25 inches 1182 x 355.5 x 870 mm	52.36 x 15.26 x 37.87 inches 1330 x 387.5 x 962 mm	56.93 x 18.37 x 41.59 inches 1446 x 466.5 x 1056.5 mm
Weight	25.5 Kg / 56.2 lbs	27.8 Kg / 61.3 lbs	30.5 Kg / 67.2 lbs	34.2 Kg / 75.4 lbs	40.4 Kg / 89.1 lbs

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Contact SAMSUNG WORLD-WIDE

If you have any questions or comments relating to Samsung products, please contact the SAMSUNG customer care center.

Country	Customer Care Center ☎	Web Site	Address
CANADA	1-800-SAMSUNG (7267864)	www.samsung.com/ca	Samsung Electronics Canada Inc., Customer Service 55 Standish Court Mississauga, Ontario L5R 4B2 Canada
			Samsung Electronique Canada Inc., Service à la Clientèle 55 Standish Court Mississauga, Ontario L5R 4B2 Canada
U.S.A	1-800-SAMSUNG (7267864)	www.samsung.com	Samsung Electronics America, Inc. 105 Challenger Road Ridgefield Park, NJ 07660-0511